

5,800 cbm LNG Bunker-Vessel
'Coralius'
for SIRIUS VEDER GAS AB, The Netherlands / Sweden

Project Data:

Shipyards:

Royal Bodewes, The Netherlands

Year of completion: expected 2017

Classification: BV

TGE's scope:

Cargo handling system with cargo tanks, LNG fuel gas system



Vessel:

5,800 m³ LNG bunker vessel

Length o.a. 99.60 m

Beam: 17.94 m

Draught (LNG): 5.90 m

Speed: kn

Characteristics of gas plant:

Capacity: 5,800 m³

Number of cargo tanks: 2 (bilobe type)

Material of cargo tanks: 9% Ni steel

Cargoes: LNG

Design temperature / pressure: -163°C / 4.5 bar g

Maximum cargo density: 500 kg/m³

Number of segregations: 1

Cargo manifolds:
 1 liquid line, 1 x 8" DIN 150 lbs flange
 1 liquid branch, 1 x 8" DIN 150 lbs flange
 1 vapour line, 1 x 6" DIN 150 lbs flange

Bunker manifolds:
 1 liquid line, 1 x 6" DIN 150 lbs flange
 1 vapour line, 1 x 4" DIN 150 lbs flange

Loading- / Unloadingrate: 840 m³/h

Deepwell pump 4 x 210 m³/h at 210 mLC

BOG-handling & fuel gas system:
 2 x cargo compressors with intercoolers
 2 x aftercoolers
 2 x submerged fuel gas pumps
 1 x forcing vaporizer
 1 x fuel gas buffer tank
 1 x fuel gas metering system

Cargo piping system: Stainless steel, AISI 316L

Inertgas plant:

Membrane system Capacity: 100 Nm³/h at 3 vol. % O₂