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

Project Data:
Shipyard:
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