DSV Belov Humaitá

Air diving with light work class vehicel





DSV designed by Robert Allan – Naval Architects and Marine Engineers (RAL). First brazilian diesel-electric diving support vessel. The DP-2 rated vessel is fitted with air diving capabilities, a light work-class ROV and knuckle-boom crane to allow effective offshore operations. The propulsion includes three main waterjets and three tunnel thrusters, which allow safe diving conditions while divers are near the surface.

REGISTRATION

Vessel Name: BELOV Humaitá

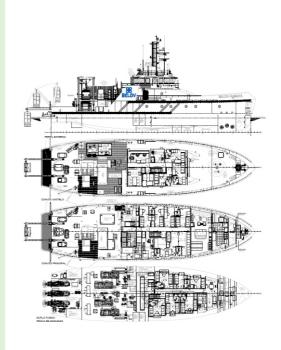
Builder: BELOV Offshore Industrial Ltda

Type: DP-2, RAL 218-010 (Petrobras

SDSV).

Class: RINA Year: 2020 Flag: Brazilian

Owner: BELOV Engenharia S.A.



MAIN PARTICULARS

DIMENSIONS

Length overall	40.50m
Breadthmoulded	10.98m
Depth	3.85m
Draft	2.80m
Deadweight	518.1t
Nettonnage	149
Grosstonnage	499

ACCOMMODATIONS

Accommodation for	35 pax
Cabins	14
Hospital	1

1 mess room, laundry, galley, stores, diving control room, ROV control room, 1 office, change room, gym.1 mess room, laundry, galley, stores, control room,

CAPACITIES

Deck capacity	5.0 t/m²
Fuel oil	90.5m ³
Fresh water*	23.5m ³

Diesel oil filtration system:

GEA Westphalia with CJC separator

OPERATION

PROPULSION - MACHINERY

Main generators	4 x 565 kW
Emergency generator	1 x 96 kW
Main waterjets	3 x 520 kW
Bow tunnel thruster	3 x 150 kW

PERFORMANCE

Trial speed 11 knots 8 to 10 Economic speed knots

Remark: vessel is diesel-electric

EQUIPMENT & ELETRONICS

DECK EQUIPMENT

Main knuckle boom crane:

1 MELCAL Offshore Crane Foldable Telescopic Boom (Model FL20T1)

-45/78° Luffing (min/max boom angle) Load capacity @ 6.15 m (max) Slewing range 360° Load capacity @ 4.30

ALARM & MONITORING SYSTEM

1 WEG IAMCS system control: Engines, main and emergency generators and thrusters 1 K-IMS (Kongsberg Information Management System): heading, wind, motions, DP alerts

GENERAL EQUIPMENT

Black water pump	1 x 5 m ³ /h
Gray water pump	1 x 5 m ³ /h
Ballast pump	2 x 130 m ³ /h
Bilge water separator	1 x 1 m ³ /h

ELETRONICS

Radar / ECDIS, Gyrocompass, Magnetic compass, Speed log, Autopilot, GPS, 2 DGPS (for DP), Echo sounder, AIS, GMDSS. Inmarsat C Radio VHF Class A VSAT

1.400 kg

2.000 kg

SAFETY EQUIPMENT

Life raft: 1 x auto inflatable for 20 people each Life vests: 47 x class 2

Fire-fighting/black water pump 2 x 55 m³/h Emergency fire-fighting pump 1 x 25 m³/h

^{*}Includes redundant fresh water generators (reverse osmosis)

DIVING EQUIPMENT

AIR DIVING EQUIPMENT (50 M DEPTH)

Diving A-frame with open bell 3.0 ton Man-rider Winches by Ekron model EKPH-MR-2,5T 2 x 2.5 ton Decompresion chamber model Deco 1800 by Totalmat 1 each

Air quads, compressor, filters, etc.

ROV EQUIPMENT

ROV A-frame 2.0 ton ROV AHC Winch Ibercisa Model MO-E/75/1000-26,72 1 each

Light Work Class ROV:

Leopard by SAAB Seaeye, 2000 m depth* rated, payload up to 205 kg, FW thrust 500 kg, vertical thruster 200 kg, including 2 x 7 f manipulators (Orion), waterjet, cavitation cleaning, CP probe, UTM, hydraulic circuit 40 l/min @ 200 BAR, various tools, etc.

PORTABLE CURRENT METER

1 x 50 m depth Valeport 106 portable current meter

DYNAMIC POSITIONNING SYSTEM

- 1 Kongsberg DP system (class 2) comprising:
- 2 DGNSS (combined GLONASS and DGPS), including Follow target function, motion prediction and DP capability analysis functions.
- 1 Cyscan
- 1 RadaScan.
- 2 UPS
- 4 MRU-PD. 3 wind sensor
- 2 INS (inertial navigation system) MGC R1

CCTV

CCTV system covering: Deck, ROV LARS, diving LARS, wheelhouse, engine room, subsea images from ROV and diving, DP system supervision and engine room control.



^{*}Ibercisa winch drum limited to 1000 m of cable



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