



Specification of
ANCHOR HANDLING / TOWING VESSEL
VALENTINE 1



Valentine Maritime (Gulf) LLC

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VALENTINE 1

1. **NAME OF VESSEL** : VALENTINE 1
2. **OWNERS** : VALENTINE MARITIME (GULF) L.L.C.
3. **YEAR BUILT** : 1998
4. **BUILDERS** : YANTAI RAFFLES SHIPYARD LTD, CHINA
5. **FLAG** : U.A.E
6. **PORT OF REGISTRY** : Abu Dhabi
7. **GT** : 520
8. **NT** : 156
9. **DECK STRENGTH** : 3.00 MT / M²
10. **DEADWEIGHT / DISPLACEMENT**
 - Light Ship Weight : 655.83 MT
 - Deadweight : 380.00 MT
 - Displacement : 1,035.83 MT
11. **SPEED** : 12.50 Knots (max)
12. **FUEL CONSUMPTION** : 8.00 MT / DAY
13. **BOLLARD PULL** : 58.63 MT
14. **HULL**
 - a. Type of Vessel : AHT / TOWING / SUPPLY / Ocean Going Vessel.
 - b. Classification : RINA / C^x Tug; Supply Vessel - Anchor Handling; Unrestricted Navigation.
 - c. Dimensions : Length O.A. 41.80 mtr (137.13 feet)
Length B.P. 37.40 mtr (122.70 feet)
Breadth 11.40 mtr (37.40 feet)
Depth 4.95 mtr (16.24 feet)
Draft 4.00 mtr (13.12 feet)
Air Draft 21.00 mtr (68.89 feet)
 - d. Fenders : Heavy Duty rubber tyre Fenders at regular intervals.
 - e. Mooring / Towing Fittings : Equipped with necessary Bollards Bits, and Towing Anchor Handling Winch.



15. PROPULSION SYSTEM / THRUSTERS

MAIN ENGINE	:	2 x 2000 BHP @ 720 rpm
MAKE	:	YANMAR
MODEL	:	Z 280A – EN
PROPELLER	:	2 x Fixed Pitch, 4 Bladed KAPLAN in nozzle Manganese Bronze.
BOW THRUSTER	:	1 x CPP Kawasaki thruster (KT – 32B) installed in a transverse tunnel and driven by 230 KW Electric Motor giving a thrust of 3.60 MT \approx 34 KN \approx 308 BHP.

16. TOWING / ANCHOR HANDLING ARRANGEMENT

Vessel is equipped with a Double Drum Electro Hydraulic waterfall type winch.

MAKE	:	PLIMSOLL
CAPACITY	:	75.00 MT First Layer @ 8.00 mtr / min 37.50 MT Mid Layer @ 16 mtr / min
BREAKING CAPACITY	:	150 MT
TOWING DRUM CAPACITY	:	50 mm Dia. x 800mtr Long Wire Rope (Max)
ANCHOR HANDLING DRUM	:	50 mm Dia x 300mtr Long Wire Rope (Max)
STERN ROLLER	:	3.50 mtr Length x 1.5 mtr Diameter.
TOWING PINS	:	PLIMSOLL PR – TB – 200 T
SHARK JAWS	:	PLIMSOLL PR – LJ – 300 T Max. Chain size – 105 mm Dia. Max. Rope size – 96 mm Dia
CONTROLS	:	Anchor Handling Winch From AFT end of Wheel House Towing Pin / Shark Jaws Locally and remotely from Wheel House.



17. MOORING SYSTEM

- 1 No. x Electro-Hydraulic Windlass on the forecastle deck with Double Gypies.
MAKE : PLIM SOLL ROBERTSON.
CAPACITY : 6.00 MT @ 12 mtr / min (Double Gypies)
WINDLASS : Located in BOW Forecastle Deck.
- 2 Nos. x Electro-Hydraulic Tugger Winches in the MIDSHIP PORT & STBD on Main Deck.
MAKE : PLIMSOLL
CAPACITY : 5 MT @ 15 mtr / min.

18. SERVICE TANKS

Fresh Water capacity : 245 Cu.M.
Fuel capacity : 242 Cu.M.

19. BUNKER DISCHARGE RATES

Fuel : 30 m³ / hr @ 30 mtr head
Fresh Water : 36 m³ / hr @ 38 mtr head

20. ACCOMMODATION

Vessel is equipped with air-conditioned quarters for 18 personnel. The available cabins are as follow: -

Single - Berth Cabin : 2 Nos.
Twin - Berth Cabin : 4 Nos.
Four - Berth Cabin : 2 Nos.

21. AIR CONDITIONING SYSTEM

Vessel is equipped with 3 No of A/C and AHU units.

MAKE : 1 X CARLYLE / 1 X CARRIER
MODEL : 06 EA 550 600 / 40 RQ – D16

22. VESSEL POWER

- 3 Nos. × 300 kW LEROY SOMER LSA M 47 – I L9 C614 Generators Driven by CAT D 3408 TA Engine (50 Hz).
- 1 No. × 50 kW LEROY SOMER LSA M 441M 3 Generator powered by Perkins 1004 TGM Engine (50 Hz) as Harbour Generator.



23. OILY WATER SEPERATOR

- 1 No. x 15 PPM oily water separator.
MAKE : TURBULOTYPE : MPB – 1

24. OIL DISPERSANT

- 1 No. x 14.3 m³ Dispersant Detergent Tank storage

25. SEWAGE TREATMENT

- 1 No. x 25 Persons Tecnicomar Sewage Treatment Plant,
Model Ecomar 24

26. AIR COMPRESSORS

- 2 Nos. x 17 m³ / hr @ 30 BAR / 30 BAR Air Compressor
INGERSOLL RAND Electric Driven Air Compressor / SPERRE
Electric Driven, MODEL : 7T2x100-400-3-50 HL2 / 77 – 90 – 105

27. MAIN WORKING DECK

- The working area is partially covered with heavy duty timber.
Clear Deck space is 20.00 mtr x 9.00 mtr i.e. 180 M². Deck
Strength = 3.00 MT / M².

28. COMMUNICATIONS / NAVIGATION EQUIPMENT

- GMDSS Equipment for Sea Area A1 + A2 + A3
- SATCOM / INMARSAT C. 1 Unit
Make : SAILOR 6006
- MF / HF (GMDSS) 1 Unit
Make : JRC, Model: NCH802
- S S B 1 Unit
Make : ICOM, Model: ICOM –M710
- WEATHER FACSIMILE 1 Unit
Make : JMC, Model: NT-1800
- VHF 2 Units
Make : JRC, Model: JHS – 32A 2 Units
Make : SAILOR, Model : RT 2048
- RADAR 2 Units
Make : JRC, Model : JMA – 5312-6 / KODEN MRD-103
- GYRO COMPASS 2 Units
Make : YOKOGAWA DEN SHIKIKI, Model : KR 005A – P



- MAGNETIC COMPASS 1 Unit
Make : SAURA KEIKI, Model : MR150
- AUTO PILOT 1 Unit
Make : Navtron, Model : NT 999G
- ECHO SOUNDER 2 Units
Make : JRC / FURUNO, Model : JFE – 5705 / FCV - 612
- EPIRB 1 Unit
Make : JRC, Model : JQE – 3A
- GPS NAVIGATOR 2 Units
Make : FURNO, Model : GP 31
- DOPPLER LOG 1 Unit
Make : JRC, Model : NJC – 203
- NAVATEX RECEIVER 1 Unit
Make : JMC, Model : NT 1800
- AIS 1 Unit
Make: KODEN, KAT - 100

29. SEARCH LIGHTS

Vessel is equipped with search lights to cover the working areas in BOW and STERN.

30. FIRE FIGHTING EQUIPMENTS / FACILITIES

Fire Pumps

- 2 Nos. × 1200 m³ / hr @ 13.50 Bar NIJHVIS Fire Water Pump, driven by GM Engine for fire fighting
- 2 Nos. × 1200 m³ / hr ALCO EL 377 / 200 Fire Monitor
- 1 No. × 70 m³ / hr GRUNDFOS Electric driven General / Fire Pump

Fire Fighting System Extinguishers

- CO₂ Fire Extinguishing system for Galley and Engine Room.
- Fire Extinguishers : As per SOLAS / CLASS Requirement

31. HEAT AND SMOKE DETECTION

Fixed Fire detectors are installed in all Cabins, Corridors, Service area and Machinery Space. The control panel is installed at the Bridge.
Make : Zhongrui Electronic, Model : JBS-8



32. LIFE SAVING APPLIANCES

- **Life Rafts / Life Jackets**
As required by Flag / Class Society.
- **Life Buoys & MOB**
As required by Flag / Class Society.
- **Pyrotechnics**
As required by Flag / Class Society.
- **Rescue Boat**
1 x 6 men Noah – RTB C/W davit.

