

Marine propulsion engines and systems of RIGAS DIZELIS DG make, based on RDS marine engines have been designed with two things in mind – durability and cost effectiveness. The core of the engine is of German origin, marinized tested and certified in-house using carefully selected EU components.

RIGAS DIZELIS DG RDS marine engines and systems have been designed and developed to operate in diverse sea conditions. Certification by all major classification authorities is available.



Description & Key Scope

- Heat exchanger cooling system
- Engine heater
- 24V starter, engine-driven charging alternator
- Flexible compensator and silencer
- Gearbox (ZF, TwinDisc, etc.) with different ratio available
- Flexible coupling between engine and gearbox
- Local and remote control panels
- Vibration isolators
- Drawing & Manual package
- Factory Test Report
- Certificates from RS (IACS member) and RRR are available

Power rating group	Engine speed (rpm)	1500	1800	2300	2500	2600	2800
A*	Power (kW)	35,3	42,6	47,7	51,3	52,7	56,0
	Power (HP)	48,0	57,9	64,9	69,8	71,7	76,2
B**	Power (kW)	39,2	47,3	53,0	57,0	58,5	62,0
	Power (HP)	53,3	64,3	72,1	77,5	79,6	84,3

Description & Key Scope

* Power rating group A is classifiable power, SCFN code acc. to ISO 3046-7 for continuous operation w/o time limitation at ref. conditions: Barom. Pressure 100 kPa; air temperature +45 °C; relative humidity 60%; raw water temperature <32 °C.

** Power rating group B is not classifiable power, ICFN code acc. to ISO 3046-7 for continuous operation with time limitation at ref. conditions: Barom. Pressure 100 kPa; air temperature +25 °C; relative humidity 60%; raw water temperature <32 °C.

Engine General Data*

Maker	Rigas Dizelis DG
Model	4RD3.1TM
No of cylinders	4 in-line
Working principle	4-stroke
Displacement, L	3.11
Bore x stroke, mm	94 x 112
Compression ratio	17.5 : 1
Aspiration	Turbocharged
Rotation	Counter clockwise (seen from flywheel end)
Flywheel	SAE 3/11.5"
Injection system type	Single injection pump for each cylinder
Governor type	Mechanical
Oil capacity, L	10 liter
Starter type	2-pole, 24V, DC
Preliminary dimensions, LxWxH (including gearbox) / weight	1060x490x700 mm / 355 kg

* Other engine parameters are available on request.

Available Key Options (other options are available on request)

Engine

- Radiator cooling system
- Manual lub oil drain pump
- Starting batteries
- Static battery charger
- Air, spring or hydraulic starter
- Duplex fuel filters

Gearbox

- Nonstandard ratios
- Trolling valves
- Power take off (PTO)
- Power take in (PTI)
- etc.

Other

- Special tools and spare parts
- Commissioning and start-up
- Extended warranty
- Propulsion lines (shafts, propellers, etc.)
- Torsional Vibration Calculation



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