

VOLVO PENTA

MD 3B



Volvo Penta MD3B is a new 3-cylinder, 4-stroke marine diesel engine with direct injection. Exceptionally compact and robust, it is designed for the toughest possible marine operating conditions.

The MD3B is a further development of the well-known and well-tested Volvo Penta 1- and 2-cylinder marine diesel engines MD1 and MD2, and this in itself is a guarantee of top operational reliability and durability. Since all three units have many components in common, the MD3B has many special advantages from the viewpoint of servicing and spare part.

High output — 36 h.p. at 2500 r.p.m. — compact measurements and low fuel consumption are some of the properties which make the MD3B a really attractive engine choice, e.g., for middle-size, relatively heavy work boats and pleasure boats of displacement type and also as an auxiliary unit in large sailing crafts.

The engine is supplied with the following alternative equipment:

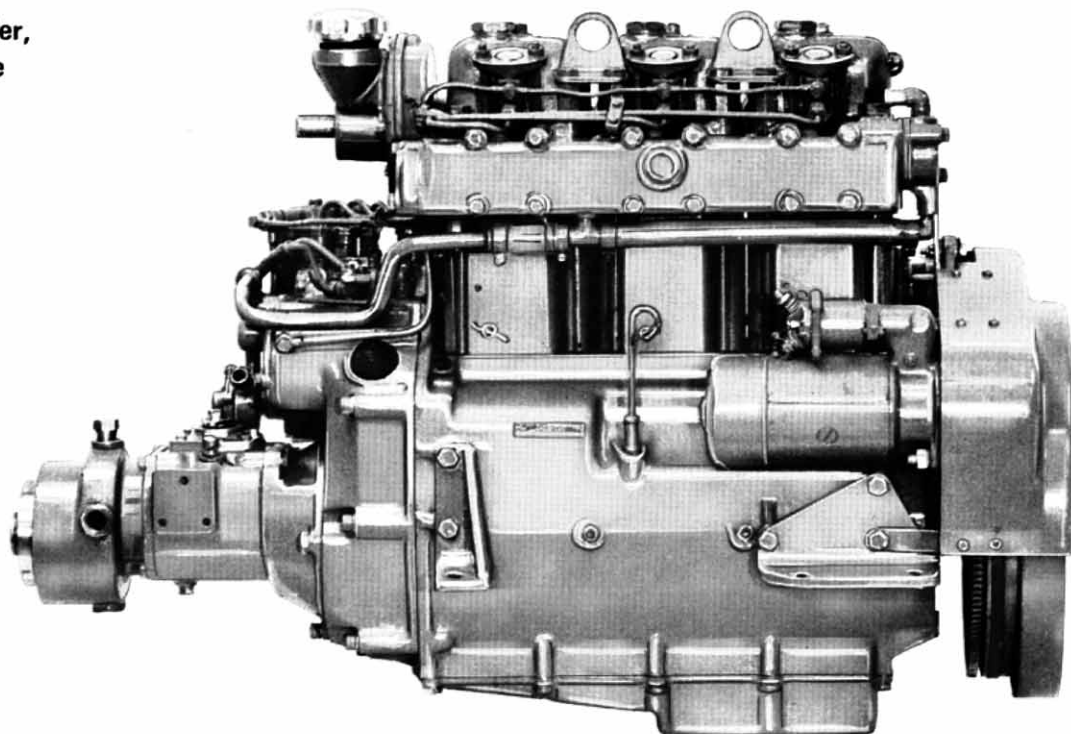
1. With electrical starter and reduction/reverse gear, ratio 1,87:1 (no hand starter).
2. With electrical starter and reduction/reverse gear ratio 1,91:1 and hand starter in front and rear end.
3. With electrical starter and reduction/reverse gear Type RB, ratio 3,42:1 (no handstarter).

Here are some of the outstanding features included in the standard equipment:

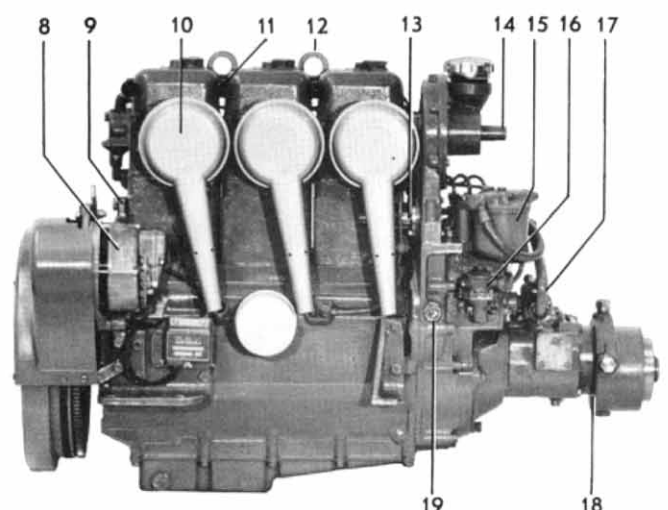
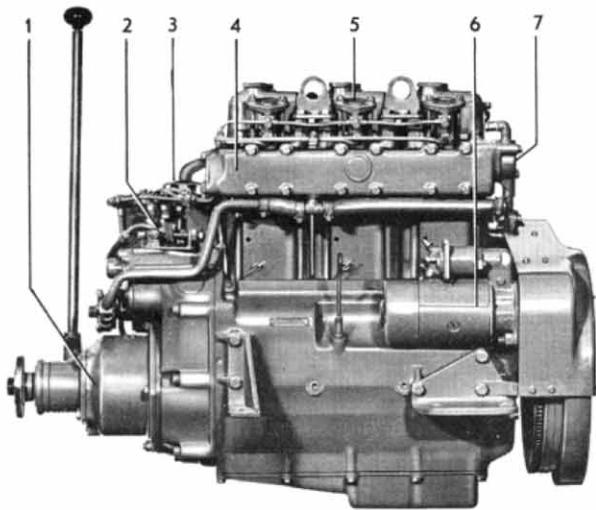
- Feed pump with hand primer for fuel and highly effective fuel filter
- Automatic cold-start — makes starting easier in cold weather
- Full-flow lubricating oil filter of so-called "Spin-on" type — easy to replace
- Thermostat-controlled sea-water cooling — ensures that the engine always runs at its most favourable operating temperature
- Effective intake silencer and particularly well-balanced crankshaft — guarantee a quiet, smoothly running engine
- Decompression device and raised hand starter — a reliable stand-by for manual starting
- Special marine type electrical system, complete instrument panel, alternator 12 V—38 A (450 W) with fully transistorized charging regulator.
- Starter motor 1,8 hp.

**Volvo Penta 3-cylinder,
4-stroke diesel engine
with direct injection**

36 h.p.

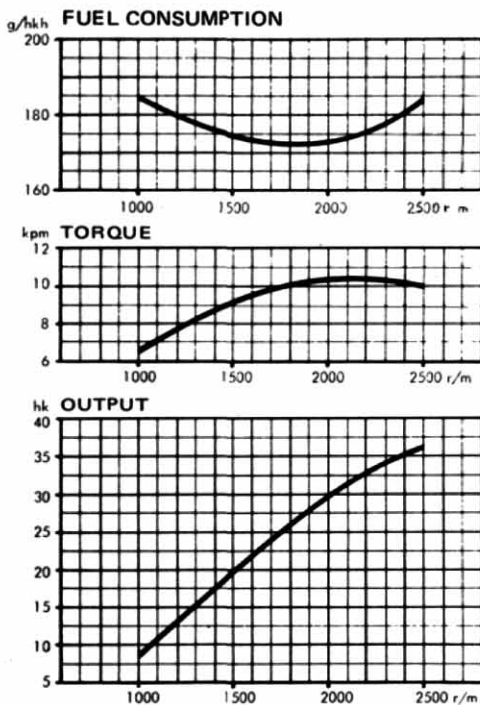


VOLVO PENTA MARINE DIESEL ENGINE TYPE MD3 B



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|--|---|---|
| 1. Reduction/reverse gear type RB (ratio 1,87:1) | 8. Alternator | 14. Shaft for starting crank (rear end) |
| 2. Fuel injection pump | 9. Bearing for starting crank (front end) | 15. Fuel filter |
| 3. Oil filter | 10. Intake silencer | 16. Feed pump |
| 4. Water-cooled exhaust manifold | 11. Decompression device handle | 17. Sea water pump |
| 5. Injectors | 12. Lifting eyelets | 18. Reverse/reduction gear type MS (ratio 1,91:1) |
| 6. Starter motor | 13. Shaft for starting crank (front end) | 19. Revolution counter sender |
| 7. Thermostat housing | | |

ENGINE DIAGRAM



1) Output according to DIN 6270 Leistung B.

DATA

Operation: 4-stroke diesel with direct injection

Continuous output, h.p. (DIN)¹⁾ at r.p.m. 36/2500

Max. torque kpm (lb.ft)/r.p.m. 10.4 (75)/2000

Number of cylinders 3

Bore, mm (in.) 88.9 (3.50)

Stroke, mm (in.) 90 (3.54")

Capacity, c.c. (cu.in.) 1680 (102)

Valves Overhead

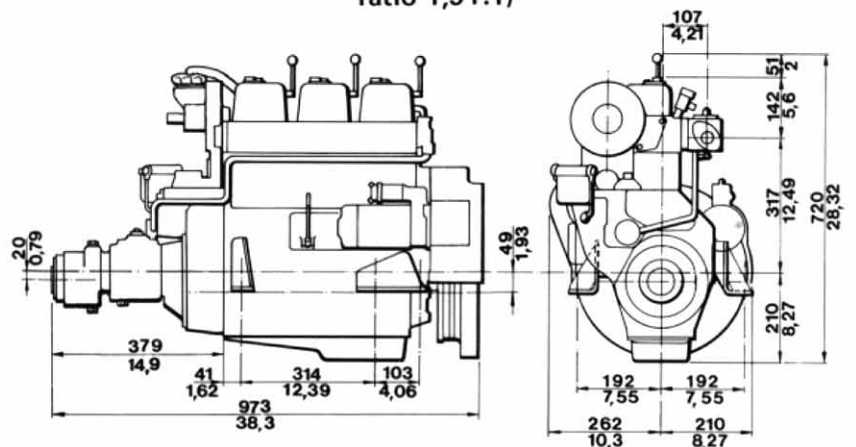
Ratio, red./reverse gear type RB 1.87:1

Ratio, red./reverse gear RB with auxiliary gear 3.42:1

Max. inclination while running 15°

Net weight, incl. red./reverse gear, approx. kg (lb.) 290 (640)

DIMENSION DRAWINGS (engine with reduction/reverse gear, ratio 1,91:1)



We reserve the right to carry out modifications



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