

# VOLVO PENTA

## BB 170A



The BB 170 A — a new six-cylinder inboard engine with an output of 170 h.p. at 5000 r.p.m. The presentation of the BB 170 A has been preceded by intensive research work and intensive testing in the Volvo engine laboratory — one of the most modern in the world.

The high output of the engine and its high torque in combination with its low fuel consumption make it particularly suitable for installation in large planing boats. Its compact dimensions when installed and its low weight in relation to the output also make it easy to install even in limited spaces.

The BB 170 A is supplied with a hydraulically actuated reverse/reduction gear with alternative ratios of 1.91:1 (right-hand rotation) and 2.1:1 or 2.91:1 (left-hand rotation).

Installation is facilitated considerably by having all the electric cables collected into one single harness connected to the engine with a ready-for-use connector for the instrument panel.

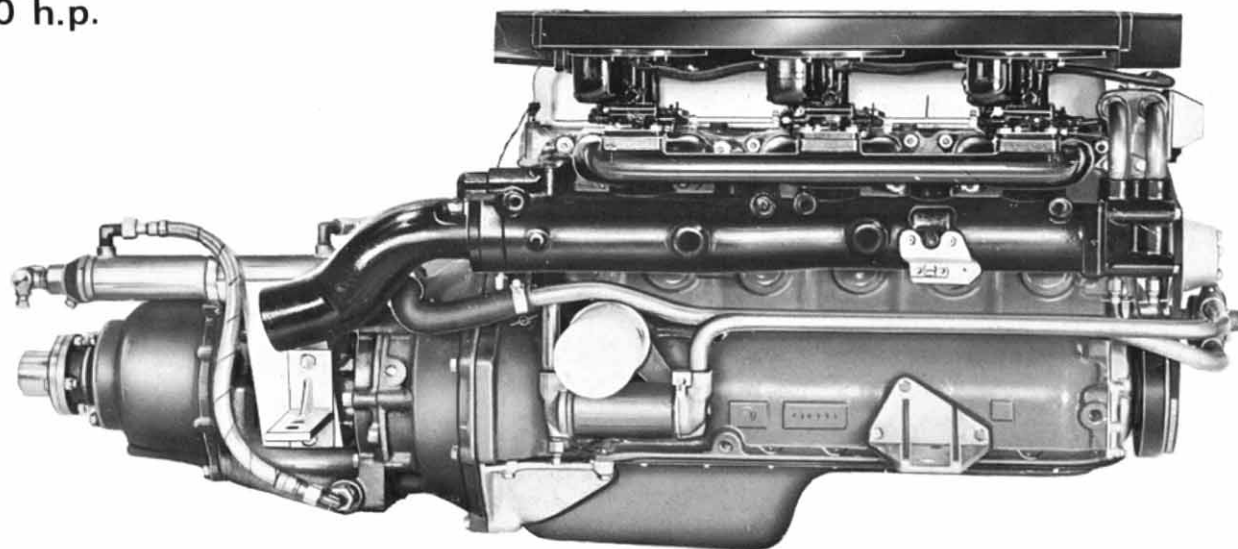
The many other outstanding features of the engine include:

- Seven-bearing induction-hardened crankshaft with vibration damper. Lead-bronze main and connecting rod bearings.
- Stellite-flashed exhaust valves and hardened intake valves of the self-rotating type which seal against replaceable seats.

- Hyper-effective oil cooler and lubricating oil filter which keep the lubricating oil at its optimum operating temperature and guarantee low bearing wear and maximum dependability.
- Three Solex down-draft carburetors connected in parallel. Each of the carburetors is fitted with fixed jets and acceleration pump.
- Intake air silencer with flame arresters.
- Fuel pump driven from the camshaft and fitted with a fuel filter and also a hand primer.
- The electrical system includes an alternator with a particularly high charging capacity and is also fully protected from corrosion even down to the electric cable flat pin connectors.
- High location starter motor and alternator and a completely enclosed flywheel to eliminate the risk of bilge water damage.
- Water-cooled exhaust manifold of top quality alloy cast-iron. Water-cooled exhaust elbow for connecting up to rubber hose.
- Rubber mountings with adjustable installation height as extra equipment.
- Instrument panel with electric revolution counter, temperature gauge and warning lamps for charging and oil pressure.

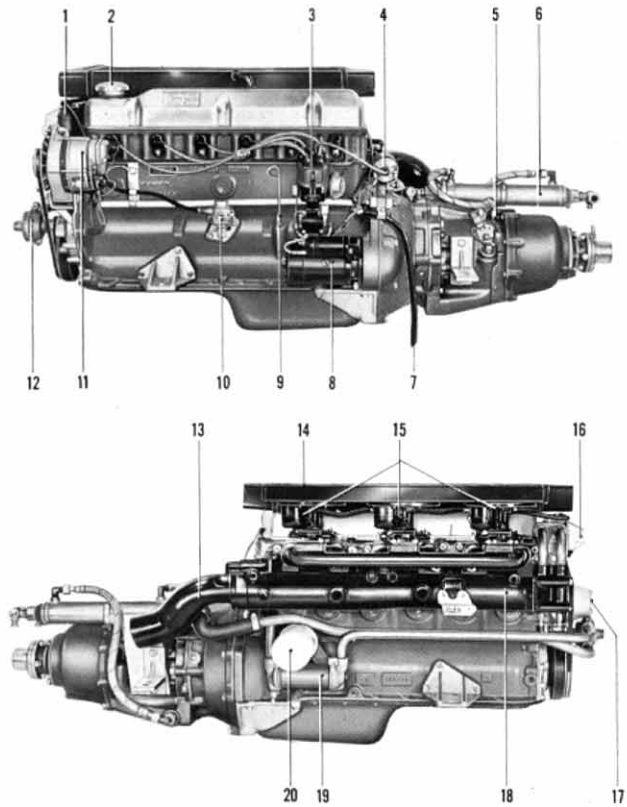
**Volvo Penta six-cylinder, four-stroke  
marine engine**

**170 h.p.**

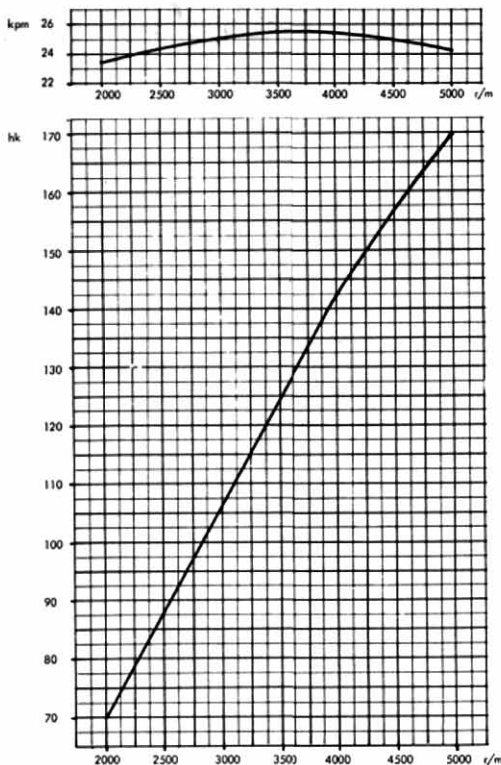


## VOLVO PENTA MARINE ENGINE TYPE BB 170 A

1. Thermostat housing
2. Oil filler
3. Distributor
4. Ignition coil
5. Hydraulically actuated reverse/reduction gear type Borg Warner
6. Oil cooler, reverse gear
7. Cable harness
8. Starter motor
9. Oil dipstick
10. Fuel pump
11. Alternator, 12 V, 38 A
12. Sea-water pump
13. Water cooled exhaust elbow
14. Air intake silencer with flame arresters
15. Down-draft carburetors (3), Solex
16. Transistorized regulator
17. Circulation pump
18. Water cooled exhaust manifold
19. Oil cooler, engine
20. Spin-on full-flow oil filter



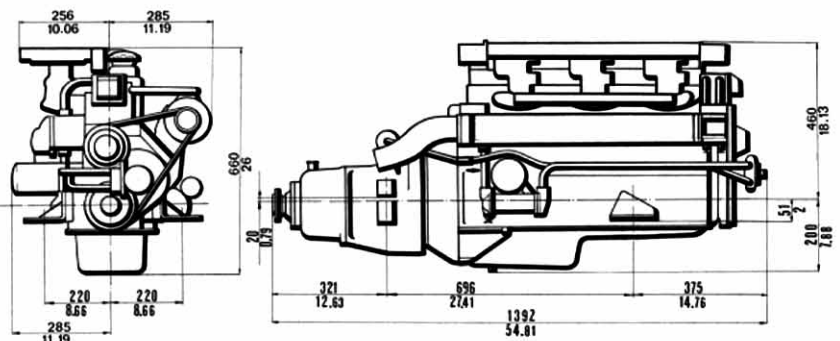
### BB 170 A



### DATA

Type of operation . . . Four-stroke carburetor engine with overhead valves  
 Type designation . . . BB 170A  
 Output (SAE) . . . 106-170 h.p.  
 Engine speed, r.p.m. . . . 3000-5000  
 Number of cylinders . . . 6 in line  
 Capacity, litres (cu.in.) . . . 2.979(182)  
 Bore/stroke, mm (in.) . . . 88.9/80(3.50/3.15)  
 Compression ratio . . . 9.5:1  
 Total weight, including reverse gear, kg(lb.)approx. . . 290(640)  
 Max. engine inclination . . . 18°

### DIMENSION DRAWING (engine with reverse/reduction gear)



We reserve the right to carry out modifications



**AB VOLVO PENTA**

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