

## FIRST AND FINEST: THE INBOARD ENGINE WITH THE OUTBOARD DRIVE

Volvo Penta, first company to market engine and outdrive packages successfully, introduce the Aquamatic 90. This is a low-compression version of Aquamatic 110, developing 90 hp SAE and does not require high-octane petrol. Aquamatic 90 has the same outdrive and features of convenience, performance and safety as Aquamatic 110. These features are outlined below.



**Silent-Shift**, cone-type clutch eliminates the shifting "clunk" of outboard-motor dog-type clutches. It's exclusive with Aquamatic. Combined with Volvo Penta's famous Rzeppa universal joint, it gives you faster, smoother shifts and superior maneuverability.



**Electric hydraulic lift** as optional extra. Swings out-drive up a full 60° and locks it there — all at the touch of a button. It's exclusive with Aquamatic. Extra-high kickup protects the drive from damage by underwater objects.



**Underwater exhaust** keeps engine noise way down. Exhaust can't bleed into the prop to cause cavitation and impair handling in reverse. It's exclusive with Aquamatic. A new water filter keeps the engine cooling system clean, is transparent for easy checking.



**Five-main-bearing crankshaft** identifies a rugged, top quality marine engine. Special bearing surfaces are held to an incredible variance of one micron (0.00004 in.). It's exclusive with Aquamatic.



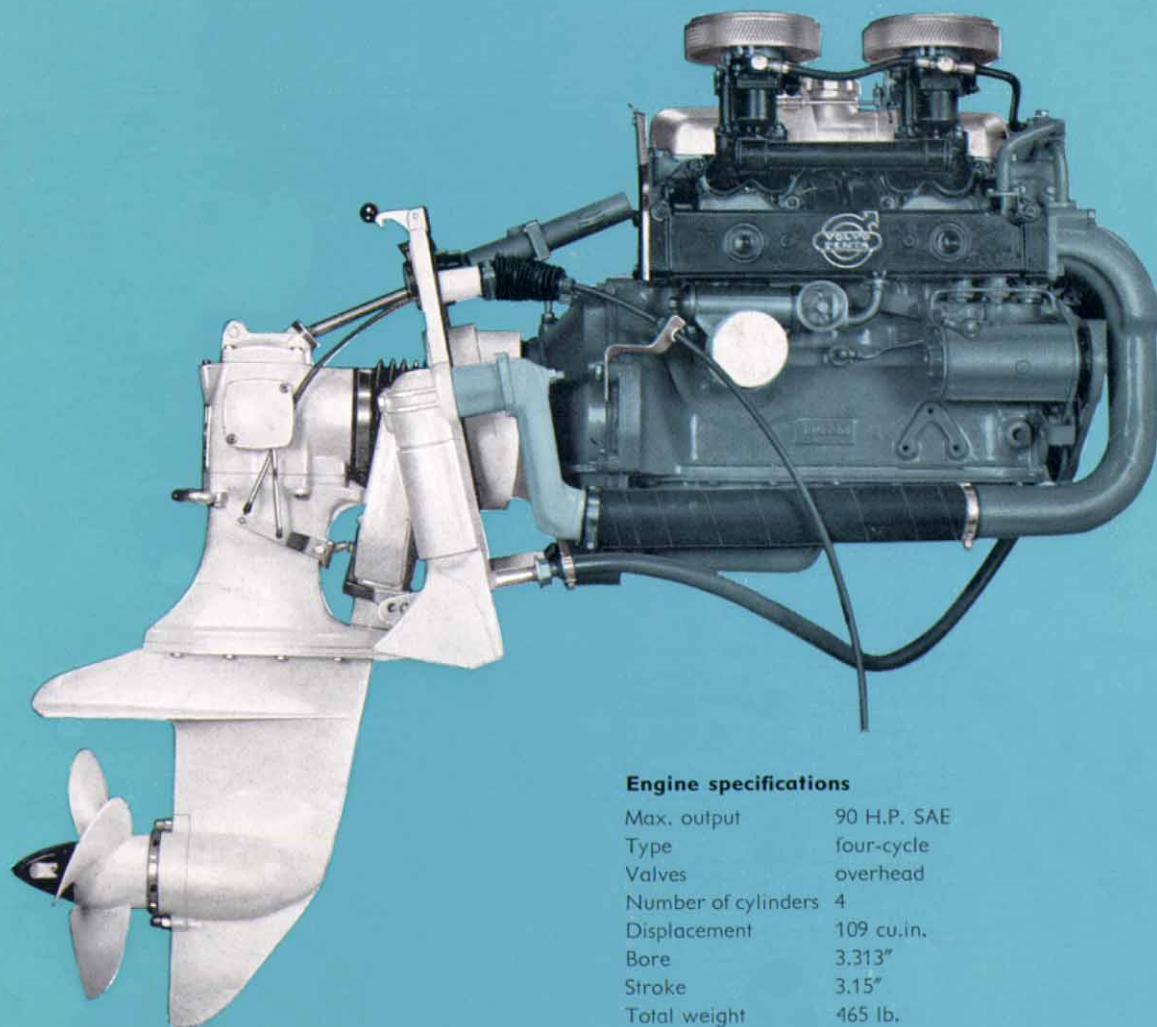
**Total quality control** is achieved by Volvo Penta through individual testing of every single part — even the bolts. It's exclusive with Aquamatic. Piston-and-rod sets are custom-paired and fitted after precision weighing and measuring.



**Unequalled fuel economy** — no large 2-cycle outboard or 4-cycle I/O can match it. That too is exclusive with Aquamatic. Your ownership, however, will not be exclusive since more people own Aquamatic I/O's than any other.

# AQUAMATIC

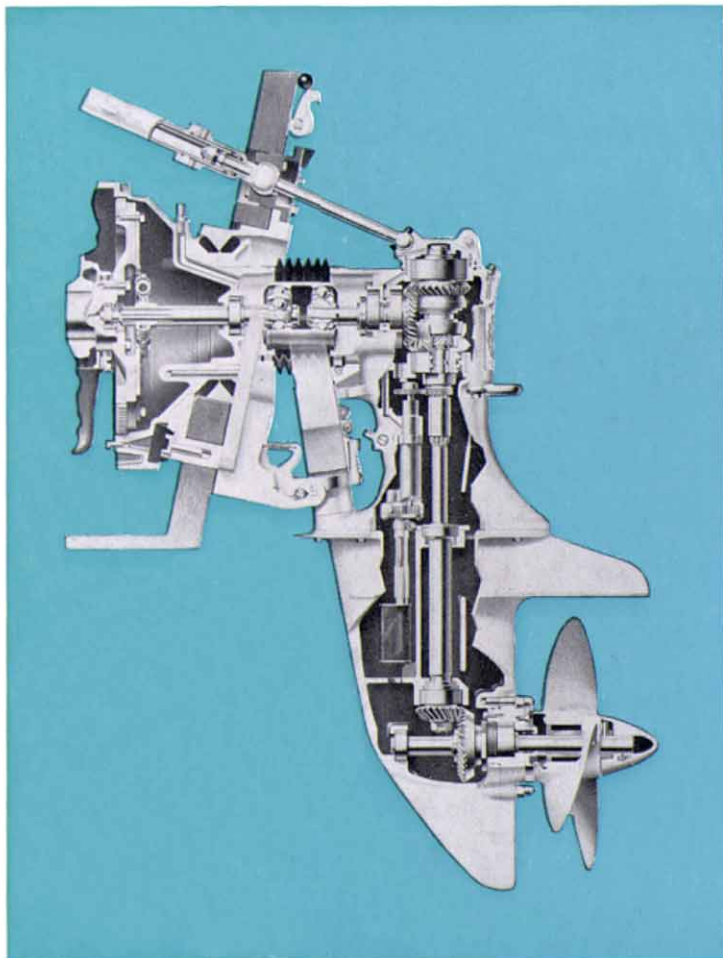
# 90



### Engine specifications

Max. output	90 H.P. SAE
Type	four-cycle
Valves	overhead
Number of cylinders	4
Displacement	109 cu.in.
Bore	3.313"
Stroke	3.15"
Total weight	465 lb.

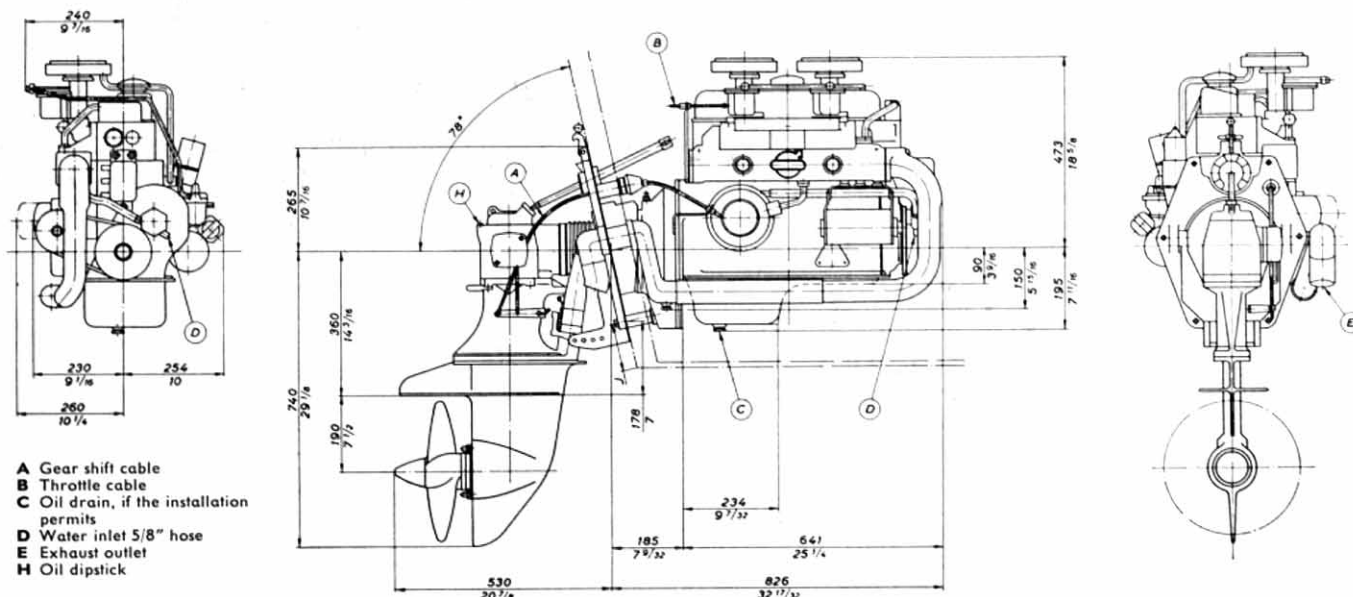
# THE ONLY INBOARD ENGINE AND OUTBOARD DRIVE COMBINATION WITH BOTH COMPONENTS PRODUCED BY THE SAME MANUFACTURER



Check these Aquamatic features:

- Outstanding accessibility for servicing.
- Fully enclosed flywheel housing.
- 12 V electrical system.
- Fully enclosed dynamo.
- All electrical cables on engine complete and coupled to one single connector for instrument panel — no wiring diagram necessary.
- High level starter motor, fully enclosed to eliminate risk of damage from bilge water.
- Salt-water resistant instrument panel with comprehensive instrumentation.
- Inboard cooling water pump fitted on engine, driven directly from camshaft through flexible coupling and extremely accessible for servicing. Filter between water intake and pump.
- New, more accessible oil dipstick at the top of the outdrive.
- Hyper-efficient combined oil cooler and filter (spin-on).

## DIMENSION DRAWING



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