

PENTA

Main data:

	22-32 h.p. at 1500-2200 r.p.m.
	17-25 h.p. at 1500-2200 r.p.m.
Valves	Overhead
No. of cylinders	
Displacement	
Bore	79.37 mm (3,125")
Stroke	80 mm (3.150")
Compression ratio	0:
Petrol	7.4: 1
Paraffin	5: 1
Engine weight, in	icluding reverse gear 180 kg (415 lb)
	cluding reverse gear and 205 kg (450 lb)
Direction of rota flywheel)	ation (viewed from Anti-clockwise
Propeller type	Right-hand pitch

Cylinder head.

Removable, of special cast-alloy.

Cylinder block

of special-alloy east iron.

of light-alloy, provided with two piston rings of which the upper is chromed and one oil ring.

Connecting rods.

Drop-forged H-section and robustly proportioned.

Crankshaft.

Drop-forged special steel, precisely balanced, three main bearings.

Camshaft.

Drop-forged with hardened and ground cams. Three bearings.

Inlet valves of nickel-steel, exhaust valves of silicon-chrome steel with replaceable guides.

Lubricating system.

Pressure and circulation lubrication by means of gear pump. All the lubricating oil passes through an oil strainer fitted in the sump and an oil cleaner fitted on the starboard side of the engine.

Cooling system.

Gear type sea-water pump driven from the camshaft. The quantity of water delivered to the engine is thermostatically controlled so that correct running temperature is automatically obtained regardless of loading and water temperature.

Carburetter.

Marine up-draught carburetter with controllable needle valve and return suction channel which prevents the Jormation of drops. Easily adjustable and provided with flame damper.

Electrical equipment.

6 volt starter motor and dynamo with built-in relay.

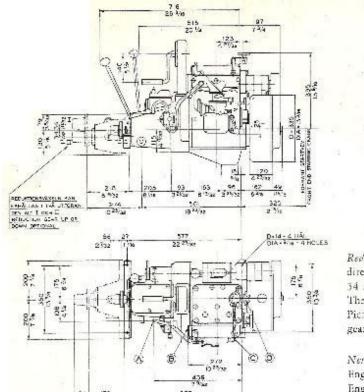
Instrument panel

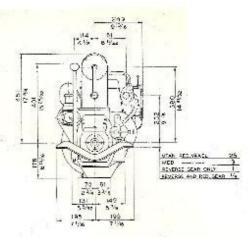
Provided with a key switch, starter button, indicator lamps for oil pressure and charging, also choke control.

of planetary type with disc clutch and brake band. Reverse gear wheel made of hardened special steel. Propeller thrust taken up in SKF bearings. The most important moving parts are also carried in SKF bearings. The reverse gear is easily adjustable.

Extra equipment.

Conversion set for paraffin. Reduction gear 2: 1. Bevel gear. Rubber mounting.

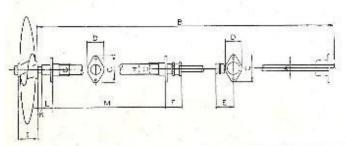




Reduction gear: 2:1 reduction gear is available; can be mounted directly on the reverse gear with the propeller shaft flange 34 mm (1.34") below or above the reverse gear shaft. The reduction gear has independent lubrication.

Picture shows engine with taised hand starter and reduction gear (see picture).

Net weight Engine with reverse gear approx. 155 kg. (340 lb.). Engine with reduction gest approx. 180 kg. (395 lb.). Propeller, etc. 25 kg. (35 lb.).



	A	В	C	D	E	F	G	Н	1	K	L	M
mm	25	2000	90	58	70	75	42	34	64	abt 15	37	1000
in	00/64"	79"	3 84/64"	2"/42"	2 3/4"	2 61/14"	1 21/22"	1 11/pa"	2 33/84"	abt 10/32"	$1^{-2\theta}/\hbar t^{\prime\prime}$	39"

Specifications

Cylinder head: removable, compression chamber of the latest design.

Cylinder block: chroms-nickel alloyed from with replaceable wet cylinder liners.

Pistons: three compression rings (top ring chromium-plated) and one oil ring.

Connecting rods: rugged, forget steel I-sections.

Bearing shells: white metal-lined steel bearing shells, extrastrong. Total bearing surface: main bearings 53 cm² (sq.in), connecting rod bearings 30 cm² (4,65 sq.in). Camthaft: steel, came intog al with shaft.

Valve tappets: adjustable, hardened and ground.

Coolant pumps gear type, driven from camshaft.

Lubrication: combination pressure and splash.

External pump and oil fifter are easily accessible. Oil gauge provided. On engines with electrical equipment the gauge is replaced by an indicator lamp on the instrument panel. The carburettor is fitted with a flame guard which also serves as explosion protection.

Planetary reverse gear with disc clutch. SKF ball bearings. Pressure lubrication from the engine system.

