

Maintenance-free viscose damper.

Pistons

Single-piece aluminium piston with ring carrier and cooling oil channel; piston rings and oil wiping rings of high-quality material, combustion chamber especially developed for lean-burn operation and low emissions.

Connecting Rods

Drop-forged, hardened and tempered, big end diagonally split and toothed; piston rod bearing shell (three-component friction bearings) and bearing shell for piston pin.

Cylinder Liner

Replaceable.

Cylinder Head

Optimized fuel consumption and emissions, water-cooled, made of special casting; individually replaceable, insert-type valve seat rings, valve guides and spark plug sleeves; per cylinder head an inlet and outlet valve of high-quality material.

Valve Control

Camshaft (with replaceable bushings) driven by the crankshaft through intermediate gears, valve lubrication by means of spray oil through the rocker arms.

Gas/air Mixing System

Carburettor, turbocharger, mixture lines with compensators, water-cooled intercooler, throttle valve and distribution lines to the cylinders.

Ignition System

Fully electronic, contact less high-performance ignition system, ignition point externally adjustable, per cylinder head an external high-performance ignition coil, with Teflon spark plug connector.

Exhaust Gas Temperature Measurement

One thermocouple per cylinder.

Electric Actuator

For electronic speed/output control.

Electronic Speed Monitoring for Speed/output Control

With magnetic, inductive pulse sensor over a gear wheel on the flywheel.

Electric Warming System

Integrated in the primary water circuit, comprising:

- electric heating elements
- thermostat
- water pump