

Fig. 46. Oil filler pipe and oil dipstick at engine
 1 Oil filler pipe
 2 Oil dipstick

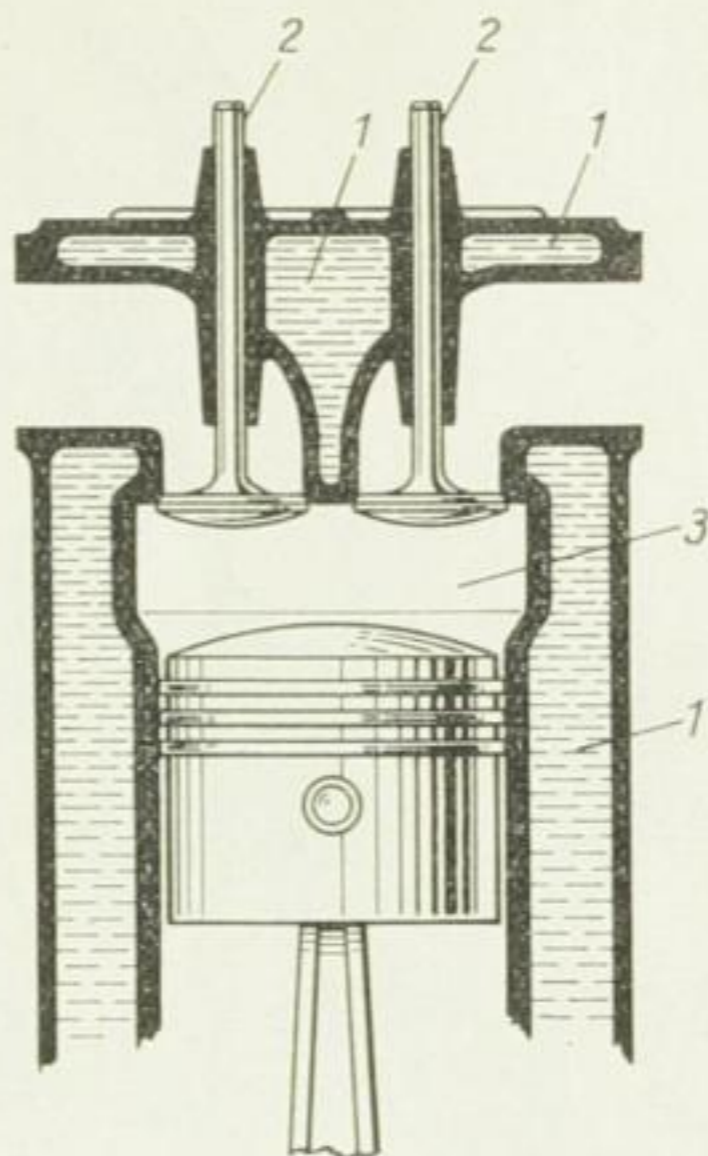
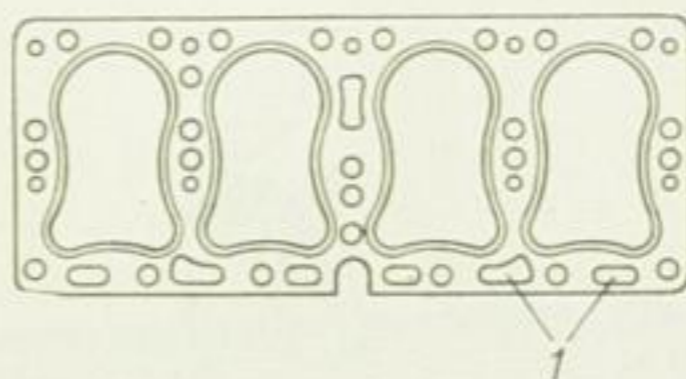


Fig. 47. Cooling water ducts in the cylinder head
 1 Cooling water ducts
 2 Valves
 3 Combustion chamber

Fig. 48. Cylinder head gasket
 1 Holes for cooling water



(c) Cylinder Head

The cylinder head is the top-cover of the cylinder block. The combustion chambers, bore-holes for the valve, and female threads holding the sparking-plugs or injection-nozzle holders are provided in the cylinder head.

The cylinder head is exposed to the high temperatures produced in combustion to a particularly high degree. That is why cooling water passes through it (Fig. 47).

A heat-resisting gasket is inserted between cylinder head and cylinder block to produce a gas-tight seal between these two castings. This gasket consists of heat-proof material which is exposed both to great heat and high pressures. Further, the gasket prevents the penetration of cooling water into the combustion chambers and seals off the individual cylinders from each other (Fig. 48).