

MD.15.**Title**

Device for controlling the valve timing and the valve lift of the gas-distributing mechanism (embodiments)

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**Description
EN**

The invention relates to propulsion engineering, in particular to devices for controlling the gas distribution of the internal combustion engine and may be used for the production of new engines, and for upgrading engines in service, in which the valve drive is carried out by the camshaft with hydraulic tappets and throttle gate.

The device for controlling the valve timing and the valve lift of the gas-distributing mechanism, according to the first embodiment, comprises a bush (2), in which is installed a plunger (4) with a ball bearing, a skirt and an axial channel with a ball check valve (5). On the plunger (4) are made longitudinal teeth, which engage with a bar (7) or with an electric device for controlling the angle of rotation of the plunger (4), and in the wall of the skirt of which is made an oil drain hole (9) for oil discharge. In the wall of the bush (2) is made a side opening (3) for oil supply and a shaped transverse recess (10) with control edges for opening of the valve of the gas-distributing mechanism. On the outer surface of the bush (2) is made an oil discharge groove (11). The device, according to the second embodiment, is characterized in that the shaped recess is made in the wall of the plunger skirt, and the drain hole is made in the bush.

Class no.

8. Aviation, car industry and transportation

