

Title (en)
DEVICE FOR CONTROLLING GAS EXCHANGE VALVES

Title (de)
VORRICHTUNG ZUR STEUERUNG VON GASWECHSELVENTILEN

Title (fr)
DISPOSITIF DE COMMANDE DE SOUPAPES DE CHANGEMENT DES GAZ

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Application
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Abstract (en)
[origin: WO03038245A1] The invention relates to a device for controlling gas exchange valves in an internal combustion engine, said device having hydraulic valve actuators (17, 18) comprising actuating plungers (26) acting upon a gas exchange valve (12, 13) and working chambers (27, 28) defined by the actuating plunger (26). The first working chamber (27) for closing the gas exchange valve (12, 13) is permanently under fluid pressure and the second working chamber (28) for opening the gas exchange valve (10) is alternately filled with and emptied of a pressurized fluid by means of a first and a second electrical control valve (34, 35). In order to reduce the number of required control valves, the second working chamber (28) of the second valve actuator (18) in a pair of valves is filled through the second working chamber (28) of the first valve actuator (17) that is connected to the first control valve (34) once a given stroke of the actuating plunger (26) of the first valve actuator (17) is carried out so as to open the assigned gas exchange valve (12).

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