

Title (en)

ELECTROMAGNETIC VALVE FOR CONTROLLING AN INJECTION VALVE OF AN INTERNAL COMBUSTION ENGINE

Title (de)

MAGNETVENTIL ZUR STEUERUNG EINES EINSPRITZVENTILS EINER BRENNKRAFTMASCHINE

Title (fr)

ELECTROVANNE POUR PILOTER UNE SOUPAPE D'INJECTION DE MOTEUR A COMBUSTION INTERNE

Publication

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Application

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Abstract (en)

[origin: WO0250424A2] The invention relates to an electromagnetic valve for controlling an injection valve of an internal combustion engine. The electromagnetic valve comprises an electromagnet (29), a displaceable armature with an armature plate (28) and with an armature pin (27), and a control valve element (25). Said control valve element is displaced with the armature, interacts with a valve seat (24), and is provided for opening and closing a fuel discharge channel (17) of a control pressure space (14) of the injection valve (1). The armature plate (28) is displaceably mounted on the armature pin (27) in a manner that permits it slide, under the influence of its inert mass, in the closing direction of the control valve element (25) counter to the tension force of a return spring (35) acting upon the armature plate (28). When in a position of rest, the armature plate is pressed by the return spring (35) against a stop part (26) arranged on the armature pin (27). The stop part (26) is designed in such a manner that it peripherally encircles the armature pin by more than 180 DEG in a plane perpendicular to the direction of motion of the armature pin (27).

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