

Title (en)

METHOD FOR OPERATING A SOLENOID VALVE, PARTICULARLY AN INJECTION VALVE OF A FUEL INJECTION SYSTEM

Title (de)

VERFAHREN ZUM BETREIBEN EINES MAGNETVENTILS, INSBESONDERE EINSPRITZVENTILS EINER KRAFTSTOFFEINSPRITZANLAGE

Title (fr)

PROCEDE DE FONCTIONNEMENT D'UNE SOUPAPE MAGNETIQUE, EN PARTICULIER D'UNE SOUPAPE D'INJECTION D'UNE INSTALLATION D'INJECTION DE CARBURANT

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Application

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Abstract (en)

[origin: WO2011012518A1] The invention relates to a method for operating a solenoid valve (10), particularly an injection valve of a fuel injection system, wherein the solenoid valve (10) comprises a valve element having a valve needle (20) and an armature (14) displaceable by means of an electromagnet (13), wherein an opening motion of the armature (14) is limited by a lift stop (18), comprising the following steps: (a) determining an actuation start of the electromagnet (13); (b) determining an end of a motion (52) (impact information) of the valve element at the end of the opening motion; (c) determining a lift delay (32) using the determined actuation start (38), the determined end of motion (52), and a previously determined time of motion (56) of the valve element.

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