

Title (en)

METHOD FOR DETERMINING THE DRIVE VOLTAGE OF A PIEZOELECTRIC ACTUATOR OF AN INJECTION VALVE

Title (de)

VERFAHREN ZUR BESTIMMUNG DER ANSTEUERSPANNUNG EINES PIEZOELEKTRISCHEN AKTORS EINES EINSPRITZVENTILS

Title (fr)

PROCEDE DE DETERMINATION DE LA TENSION DE COMMANDE D'UN ACTIONNEUR PIEZOELECTRIQUE D'UNE SOUPAPE D'INJECTION

Publication

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Application

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Abstract (en)

[origin: WO2005026516A1] The invention relates to a method for determining the drive voltage of a piezoelectric actuator of at least one injector (1) with which an amount of liquid is injected at high pressure into a cavity, especially into the combustion chamber of an internal combustion engine, whereby the drive voltage is varied depending on the pressure with which the amount of liquid is impinged upon. The inventive method is characterized in that a drift of the drive voltage (voltage requirement) required for a predetermined lift of an on/off valve of the injector is controlled for each injector individually by controlling the difference between the switch-off voltage threshold (Uab) and stationary cut-off voltage (URegel) to a desired value predetermined for an operating point.

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