

Title (en)  
METHOD AND DEVICE FOR CONTROLLING A VALVE

Title (de)  
VERFAHREN UND VORRICHTUNG ZUM STEUERN EINES VENTILS

Title (fr)  
PROCEDE ET DISPOSITIF DE COMMANDE D'UNE SOUPAPE

Publication  
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Application  
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Abstract (en)  
[origin: WO2005119039A1] According to the invention, an actuation signal for loading a piezo actuator is determined and generated in accordance with a pilot control value and an output value of a controller. The pilot control value depends on at least one operational parameter. The generated actuation signal is to cause the piezo actuator to be loaded in such a way that a valve member is controlled from the position located away from a valve seat into a valve seat. A first value is determined which is characteristic of the electric power fed to the piezo actuator when the valve member hits the valve seat while a second value is determined that is characteristic of the energy delivered to the piezo actuator when the loading process of the piezo actuator has been completed. A real value that is characteristic of a sealing force with which the valve member is pressed onto the valve seat is determined in accordance with the first and second value. The real value and a predefined setpoint value are fed to the controller which generates an output value in accordance therewith. A pilot control value assignment instruction is adjusted according to the output value and at least one operational parameter, and the pilot control value assignment instruction is used for determining the pilot control value if a predefined condition is met.

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