Title (en)

METHOD FOR CONTROLLING A VALVE AND METHOD FOR CONTROLLING A PUMP/NOZZLE DEVICE WITH A VALVE

Title (de)

VERFAHREN ZUM STEUERN EINES VENTILS UND VERFAHREN ZUM STEUERN EINER PUMPE-D SE-VORRICHTUNG MIT EINEM VENTIL

Title (fr)

PROCEDE DE COMMANDE D'UNE SOUPAPE ET PROCEDE DE COMMANDE D'UN DISPOSITIF POMPE-AJUTAGE AVEC UNE SOUPAPE

Publication

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Application

EP 04803890 A 20041215

Priority

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- DE 10360019 A 20031219

Abstract (en)

[origin: WO2005061876A1] A valve has a valve actuating device, which is provided in the form of a piezo actuator, a valve element, a valve body and a valve seat. At a predeterminable point in time (t5), the valve element is controlled by a discharging process of the piezo actuator from a position in which it rests against the valve seat to a predetermined position located at a distance from the valve seat. The discharging process is divided into a first discharging period (T4) during which a predetermined first amount of electrical energy is discharged from the piezo actuator, a subsequent holding time period (T5) during which the piezo actuator is not controlled, and a subsequent second discharging period (T6) during which a predetermined second amount of electrical energy is discharged from the piezo actuator. The holding time duration (T5) and/or the first discharging period (T4) are/is adapted according to the course of a value that is not characteristic of the oscillation behavior of the piezo actuator during the holding time period (T5). The invention also relates to a corresponding method for a charging process of the piezo actuator.

IPC 8 full level

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CPC (source: EP US)

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