

Title (en)

Metering device with flow calibrator and method for setting a flow rate of a metering device

Title (de)

Messvorrichtung mit Durchfluss-Kalibriereinrichtung sowie Verfahren zur Einstellung der Durchflussmenge der Messvorrichtung

Title (fr)

Dispositif de dosage avec calibreur du débit et procédé pour ajuster le débit du dispositif de dosage

Publication

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Application

EP 03001633 A 20030124

Priority

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Abstract (en)

[origin: EP1445477A1] The invention relates to a metering device for dosing pressurized fluids, particularly an injection valve for a fuel injection system in an internal combustion engine, comprising a housing (12) having an end part provided with an outlet passage (14) terminating with a metering opening (16), an axially moveable valve needle (20) passing through the outlet passage (14), and controlling opening and closing of the metering opening (16), and a piezoelectric actuator (18) in axial alignment with the valve needle (20) and cooperating with the valve needle (20) to control its axial movement. A plastically deformable adjustment element (22) is arranged axially aligned between a bottom end piece (24) of the piezoelectric actuator (18) and a head (26) of the valve needle (20), wherein a plastic deformation of the adjustment element (22) regulates the axial spacing between the piezoelectric actuator (18) and the valve needle (20), thereby setting a flow rate for the metering device. <IMAGE>

IPC 8 full level

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