

Title (en)
FUEL-INJECTION VALVE FOR INTERNAL COMBUSTION ENGINES

Title (de)
KRAFTSTOFFEINSPRITZVENTIL FÜR BRENNKRAFTMASCHINEN

Title (fr)
INJECTEUR DE CARBURANT POUR MOTEURS A COMBUSTION INTERNE

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Application
EP 13725117 A 20130516

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Abstract (en)
[origin: WO2014000968A1] The invention concerns a fuel-injection valve for internal combustion engines, with a housing (2), in which is formed a pressure chamber (6) from which at least one injection opening (8) proceeds. Disposed in the pressure chamber (6) is a valve needle (10), of which the longitudinal movement opens and closes the at least one injection opening (8). Remaining at least in sections between the valve needle (10) and the wall of the pressure chamber (6) is an annular space which can be filled with fuel at high pressure and through which fuel can flow in the direction of the injection openings (8). The valve needle (10) is guided by a guide section (14) formed in the pressure chamber (6). In the region of the guide section (14), the valve needle (10) comprises an elongate bore (15), through which fuel can flow from the part of the pressure chamber (6) upstream of the guide section (14) into the downstream part of the pressure chamber (6), a throttling point (16) being formed inside the elongate bore (15).

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