

Title (en)

FUEL INJECTOR THE CONTROL VALVE ELEMENT OF WHICH COMPRISES A SUPPORT REGION

Title (de)

KRAFTSTOFFINJEKTOR, DESSEN STEUVENTILELEMENT EINEN STÜTZBEREICH AUFWEIST

Title (fr)

INJECTEUR DE CARBURANT DONT L'ÉLÉMENT SOUPAPE DE COMMANDE PRÉSENTE UNE ZONE D'APPUI

Publication

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Application

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Abstract (en)

[origin: WO2009092507A1] The invention relates to an injector (1), in particular, a common-rail injector for injection of fuel into a combustion chamber of an internal combustion engine, with an injection valve element (11), adjustable between a closed position and an open position, controllable by means of a control valve (26), which has a control valve element (25), adjustable between a closed position and an open position by means of an actuator (27) which in the closed position is an at least almost pressure-equalised and which has a sealing line (34) which cooperates in a sealing manner in the closed position of the control valve element (25) with a control valve seat (28) and which is lifted off the control valve seat (28) in the open position and hence opens fuel flow from a high pressure region (37) to a low pressure region (9) of the injector (1). According to the invention, the control valve element (25) has a support region (40) extending over the sealing line (34) in a radial direction to the high pressure region (37).

IPC 8 full level

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