

Title (en)
FUEL INJECTOR

Title (de)
KRAFTSTOFFINJEKTOR

Title (fr)
INJECTEUR DE CARBURANT

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Application
EP 10762649 A 20101001

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Abstract (en)
[origin: WO2011057864A1] The invention relates to a fuel injector for injecting fuel into a combustion chamber of an internal combustion engine, in particular a common-rail injector, comprising a control valve (19) for hydraulically connecting a control chamber (13) which is operationally connected to a one or multi-part injection valve element (9) to a low pressure region (8), wherein the control valve (19) comprises a valve element (18) which is axially adjustable by an actuator and interacts with a valve seat (20) in the closed position thereof, to which an axial guide (24) for guiding the valve element (18) in the axial adjustment movement thereof is allocated. According to the invention, a center point (M) of an imaginary circle (26) is arranged within the axial guide length of the guide (24) and the circle contacts the valve seat (20) or the sealing region (31) of the valve element (18) interacting with the valve seat (20) at points, in a longitudinal section plane of the fuel injector (1) accommodating a longitudinal center axis (L) of the valve element (18) of the control valve (19), at two points (P1, P2) spaced apart from one another and the center point (M) of the imaginary circle (26) is spaced apart less than 40%, advantageously less than 30%, preferably less than 20%, particularly preferably less than 20% of the axial guide length of the guide (24) from an axial center (25) of the guide (24).

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