

Title (en)
FUEL INJECTION VALVE

Title (de)
BRENNSTOFFEINSPRITZVENTIL

Title (fr)
SOUPAPE D'INJECTION DE COMBUSTIBLE

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Application
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Abstract (en)
[origin: WO2008028786A1] The fuel injection valve according to the invention is characterized in that a perforated plate (23) which has a plurality of ejection openings (25) is arranged downstream of a valve seat body (16) which has a fixed valve seat (29). Provided directly upstream of the ejection openings (25) is an inflow opening (28) as an approach flow cavity. The inflow opening (28) is designed such that an approach flow to the ejection openings (25) takes place substantially at a right angle with respect to the longitudinal extent of the ejection openings (25). The ejection openings (25) are arranged and aligned such that at least one fuel spray can be ejected in the form of a hollow cone lamella or solid cone lamella, in which a radially outer region (35) is composed of larger droplets than a radially inner region (36) of the spray, whereby the exhaust gas emission values, in particular during a cold start of an internal combustion engine, can be reduced. The fuel injection valve is particularly suitable for use in fuel injection systems of mixture-compression, spark-ignition internal combustion engines.

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