

Title (en)
FUEL INJECTION VALVE

Title (de)
BRENNSTOFFEINSPRITZVENTIL

Title (fr)
SOUPAPE D'INJECTION DE CARBURANT

Publication
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Application
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Priority
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Abstract (en)
[origin: WO2006040246A1] Disclosed is a fuel injection valve which is characterized in that a perforated disk (23) that is provided with a plurality of discharge ports (24) is disposed downstream of a valve seat member (16) comprising a fixed valve seat (29). An inlet port (19) encompassing an annular hollow inflow space (26) is provided directly upstream of the discharge ports (24). The valve seat member (16) covers the hollow inflow space (26) in such a way that the discharge ports (24) of the perforated disk (23) which are located downstream are covered up. Each discharge port (24) is provided with one inlet zone (33) whose diameter D1 is significantly greater than the diameter D2 of a zone which is located immediately downstream thereof at a sharp angle and forms the narrowest cross section of the discharge port (24), the discharge port (24) expanding in a trumpet-shaped fashion to a diameter D3 from said zone in the direction of flow. The inventive fuel injection valve is particularly suitable for use in fuel injection systems of mixture-compressing spark-ignited internal combustion engines.

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