

Title (en)  
FUEL INJECTION VALVE

Title (de)  
BRENNSTOFFEINSPRITZVENTIL

Title (fr)  
SOUPAPE D'INJECTION DE CARBURANT

Publication  
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Application  
**EP 03731607 A 20030109**

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Abstract (en)  
[origin: WO03081022A1] The invention relates to a fuel injection valve (1), especially for directly injecting fuel into the combustion chamber of an internal combustion engine. The inventive fuel injection valve comprises a valve needle (3) that is provided, on the injection end thereof, with a valve closing body (4) that interacts with a valve face (6), configured on a valve face body (5), to give a sealing seat and that is guided in a guide (35). A swirl device (36) generates a swirl of the fuel in a swirl chamber (37). In the valve seat body (5) an injection opening (7) is provided. An at least partially elastic sealing device (40) prevents the inflow of fuel through a gap (39) between the guide body (35) and the valve closing body (4) into the swirl chamber (37).

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