

Title (en)  
FUEL INJECTION VALVE FOR INTERNAL COMBUSTION ENGINES

Title (de)  
KRAFTSTOFFEINSPRITZVENTIL FÜR BRENNKRAFTMASCHINEN

Title (fr)  
SOUPAPE D'INJECTION DE CARBURANT POUR MOTEURS A COMBUSTION INTERNE

Publication  
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Application  
**EP 99957931 A 19991021**

Priority  
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• DE 19857244 A 19981211

Abstract (en)  
[origin: DE19857244A1] The invention relates to a fuel injection valve for internal combustion engines, comprising a valve member (7) that can be axially displaced in a guide bore (5) of a valve body (1), said valve member having two guide sections serving to slide said member in the guide bore (5). The first top guide section is provided on the end of the valve member (7) opposite the combustion chamber and the second bottom guide section (25) is provided in the area of the valve member (7) close to the combustion chamber. The bottom guide section (25) separates an annular gap (29) that is formed between the valve member shaft and the wall of the guide bore (5) and that is connected to a high pressure fuel admission duct of a pressure chamber (31) located underneath and leading to the valve seat surface (11) when the fuel injection valve is closed and controls said connection when the valve member (7) is opened by a lifting motion. Said valve also comprises a throttle connecting section between the annular gap (29) and the pressure chamber (31) located underneath. Said throttle cross section is configured as a throttle hole (41).

IPC 1-7  
**F02M 61/04**; **F02M 45/12**

IPC 8 full level  
**F02M 61/10** (2006.01); **F02M 45/12** (2006.01); **F02M 61/04** (2006.01); **F02M 61/16** (2006.01)

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