

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 98936193 A 19980617**

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Abstract (en)  
[origin: DE19752496A1] The invention relates to a fuel injection valve for internal combustion engines, comprising a valve member (11) that can be displaced in the axial direction in a valve body (1). Said valve member cooperates with a valve seat surface (15) on the valve body (1) and with a tight surface (13) to control an injection orifice (17). The end of said member facing away from the combustion chamber is impinged upon by a valve spring (31) arranged in a spring chamber (29) in the closed position. The valve member (11) has a pressure shoulder (21) working in the opened direction, which projects into a pressure chamber (19) that can be filled with high pressure fuel. The spring chamber (19) is connected to the pressure chamber (19) through a choke gap and is closed in relation to a fuel return system so that the spring chamber (29) acts as a hydraulic damper when the valve member (11) lifts to the opened position.

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IPC 8 full level  
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