

Title (en)  
FUEL INJECTION VALVE

Title (de)  
KRAFTSTOFFEINSPRITZVENTIL

Title (fr)  
INJECTEUR DE CARBURANT

Publication  
**EP 0937203 A1 19990825 (DE)**

Application  
**EP 98916807 A 19980227**

Priority  
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Abstract (en)  
[origin: DE19739905A1] The invention relates to a fuel injection valve for internal combustion engines comprising a valve member (5) moving outwards from the valve body (1). At least two axially superimposed rows of injection holes (23) are provided for on said valve member, which holes can be controlled in sequence during the opening stroke directed towards the outside of the valve member (5). The valve further comprises a two-stage hydraulic valve lift stop which delimits the opening stroke path of the valve member (5) and is configured as a hydraulic damping chamber (39) with controllable relief. Relief is obtained by means of at least two ground faces (51, 59) on the valve member (5) which can be controlled in sequence during the opening stroke of the valve member (5). At least one of said ground faces can be connected to a low-pressure chamber via a relief channel (63) containing a valve (65).

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**F02M 61/08**

IPC 8 full level  
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