

Title (en)
FUEL INJECTION VALVE FOR INTERNAL COMBUSTION ENGINES

Title (de)
KRAFTSTOFFEINSPRITZVENTIL FÜR BRENNKRAFTMASCHINEN

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

Publication
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Application
EP 01270695 A 20011128

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Abstract (en)
[origin: WO0248536A1] The invention relates to a fuel injection valve comprising a valve body (1), with a piston-shaped valve member (5) which is arranged therein and which can be longitudinally displaced in a bore (3).. The valve member (5) is guided in the bore (3) with a tight section (105) facing the combustion chamber and a guide section (205) on the side of the combustion chamber. The valve member (5) is surrounded by a first pressure chamber (9) which can be filled by fuel between the tight section (105) and the guiding section (205), and by a second pressure chamber (19) between the guide section (205) and the end next to the combustion chamber. An annular collar (22) is formed on the guide section (205) of the valve member. Said collar (22) has a front surface which is orientated towards the combustion chamber (37) and a front surface opposite the combustion chamber (36). When the valve member (5) is raised in an opening direction, the annular collar (22) moves into a bore guide section (203) and opens or connects the first pressure chamber (9) to the second pressure chamber (19). A throttle connection (40) is embodied on the annular collar (22).

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