

Title (en)  
FUEL INJECTION VALVE FOR INTERNAL COMBUSTION ENGINES

Title (de)  
KRAFTSTOFFEINSPRITZVENTIL FÜR BRENNKRAFTMASCHINEN

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

Publication  
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Application  
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Abstract (en)  
[origin: WO2004044414A1] The invention relates to a fuel injection valve for internal combustion engines, comprising a valve body (1), with a drilling (3) embodied therein and defined at the combustion chamber end thereof by a conical valve seat (18) from which at least one injection opening (20) leads. A hollow valve needle (8) is arranged in the drilling (3) such as to be displaced longitudinally, comprising a valve sealing surface (35) at the end thereof facing the valve seat (18). A first sealing region (31; 34) and a second sealing region (32; 46; 48) are embodied on the valve sealing surface (35), whereby, on contact of the hollow valve needle (8) on the valve seat (18), the first sealing region (31; 34) provides a seal upstream of the at least one injection opening (20) and the second sealing region (32; 46; 48) downstream thereof.

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