

Title (en)
FUEL INJECTION VALVE FOR INTERNAL COMBUSTION ENGINES

Title (de)
BRENNSTOFFEINSPRITZVENTIL FÜR VERBRENNUNGSKRAFTMASCHINEN

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

Publication
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Application
EP 07816189 A 20071015

Priority
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Abstract (en)
[origin: WO2008046238A2] Disclosed is a fuel injection valve (4) comprising a control member (70) that is provided with a control passageway (114) which is arranged eccentrically relative to the housing axis (8) and can be opened and closed by a closure piece (96) with the aid of an actuator assembly (26) in order to obtain intermittent injections. The control member (70) is positioned by means of a centering pin (124) in order to define the circumferential position of the eccentric control passageway (114). The centering pin (124) is guided within a pocket bore of the control member (70) as well as within a bore of an intermediate plate (12), a cylindrical element (13), or a spacing sleeve (202). The actuator assembly (26) is designed as an electromagnetic actuator (80) in which the stop (98; 99) for limiting the lift of the pilot valve member is designed as a monolithic component of the intermediate plate (12) or as a flat stop disk (97) in a separate workpiece. The eccentric position of the actuator assembly (26) and the design of the stop (98; 99) allow for a very compact design of the fuel injection valve. The compact design makes it possible to mount a suitable storage chamber in the monolithic housing body (10) of the fuel injection valve, above the high-pressure inlet bore (20).

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