

Title (en)
FUEL INJECTION VALVE

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Application
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DE 3931604 A 19890922

Abstract (en)
[origin: WO9104407A1] A fuel injection valve for fuel injection systems of internal combustion engines has a valve needle (18) co-operating with a valve seat (17) to open and close a valve aperture (16), which is actuated by an electromagnet (20) against a return spring (27). The return spring is supported on the armature (24) of the electromagnet (20), which is firmly secured to the valve needle (18), and on an adjusting tube (28) which is axially movable inside the core (22) of the electromagnet (20) and through which fuel is fed to the valve aperture (16) from a fuel intake stub (15). The travel of the valve needle is restricted by a transverse pin (32) with a central stop surface (33) which is securely arranged inside the magnet core (22). The adjusting tube (28) has a longitudinal slot at its end section nearest the return spring (27) and engages loosely at this point with both sides of the transverse pin (32). The valve needle travel is always constant, even when the needle (18) is not aligned with the valve housing, on account of its striking the central stop on the transverse pin (32).

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