

Title (en)

Electromagnetic valve and its use as a fuel injector valve.

Title (de)

Elektromagnetisches Ventil und seine Verwendung als Brennstoffeinspritzventil.

Title (fr)

Clapet à commande électromagnétique et l'utilisation comme clapet d'injection de combustible.

Publication

EP 0006769 A1 19800109 (EN)

Application

EP 79301297 A 19790705

Priority

JP 9179678 U 19780705

Abstract (en)

An electromagnetic valve (10) for controlling fluid flow comprises a magnetic spherical valve member (20) movably disposed in a fluid chamber (F1, F2) to which fluid is admitted, a non-magnetic valve seat member (22) on which the spherical valve member (20) is seatable, a main magnetic pole member (28a) disposed opposite the valve seat member (22) and in close proximity to the spherical valve member (20) to attract the valve member thereto, and a side magnetic pole member (P) disposed around the spherical valve member (20) and in close proximity to the valve member, the side magnetic pole member (P) being spaced from and between the level of the extreme end of the main magnetic pole member (28a) and the level of the extreme end of the valve seat member (22), so that a magnetic field formed between the main and side magnetic pole members (28a, P) effectively acts on the spherical valve member (20) so as to shorten the response time and stability in the action of the electromagnetic valve.

IPC 1-7

F02M 51/08

IPC 8 full level

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CPC (source: EP)

F02M 69/145 (2013.01)

Citation (search report)

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