

Title (en)
ELECTROMAGNETIC VALVE AND ITS USE AS A FUEL INJECTOR VALVE

Publication
EP 0006769 B1 19811111 (EN)

Application
EP 79301297 A 19790705

Priority
JP 9179678 U 19780705

Abstract (en)
[origin: EP0006769A1] 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.

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F16K 31/06; F02M 51/08

IPC 8 full level
F16K 31/06 (2006.01); **F02M 51/08** (2006.01); **F02M 69/14** (2006.01)

CPC (source: EP)
F02M 69/145 (2013.01)

Cited by
CN111658247A; GB2147690A; EP0067628A3; EP0063952A1; US4531679A; US5820032A; US4981282A

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