

Title (en)
Electromagnetic actuator

Title (de)
Elektromagnetischer Aktuator

Title (fr)
Actionneur électromagnétique

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Application
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Abstract (en)
A solenoid actuator (200) for use in a fuel injection system is disclosed. The actuator comprises a generally cylindrical core member (202) having a longitudinal axis (A) and defining, at an end thereof, an inner pole face (210) of the actuator, a wire coil (212) disposed around the core member (202) and arranged to be connected to a power source in use so as to generate a magnetic field around the coil, an outer ring (218) arranged concentrically around the end of the core member (202) and defining an outer pole face (220) of the actuator, the outer and inner pole faces (210, 220) being substantially co-planar, and a support ring (216) of non-magnetic material having a relatively low magnetic permeability, the support ring (216) being disposed between the end of the core member (202) and the outer ring (218). In one embodiment, the actuator (200) is receivable in a recess (308) in a housing (302), and is arranged such that substantially all of the flux in a part of a magnetic circuit defined by the magnetic field is guided to pass between the outer ring (218) and the housing (302) in use of the actuator.

IPC 8 full level
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Citation (applicant)
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