

Title (en)

ELECTROMAGNETICALLY ACTUATABLE INLET VALVE AND HIGH-PRESSURE PUMP COMPRISING AN INLET VALVE

Title (de)

ELEKTROMAGNETISCH BETÄTIGBARES EINLASSVENTIL UND HOCHDRUCKPUMPE MIT EINLASSVENTIL

Title (fr)

SOUPAPE D'ADMISSION À COMMANDE ÉLECTROMAGNÉTIQUE ET POMPE HAUTE PRESSION MUNIE D'UNE SOUPAPE D'ADMISSION

Publication

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Application

EP 17784951 A 20171017

Priority

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Abstract (en)

[origin: WO2018073246A1] The invention relates to an electromagnetically actuatable inlet valve (24) for a high-pressure pump, in particular of a fuel-injection system. The inlet valve (24) has a valve member (34) which can be moved between an open position and a closed position. Provided is an electromagnetic actuator (60), by means of which the valve member (34) can be moved, wherein the electromagnetic actuator (60) has an armature (68) which acts at least indirectly on the valve member (34), a solenoid coil (64) which surrounds the armature (68), and a magnetic core (66), against which the armature (68) comes to rest, at least indirectly, when current is applied to the solenoid coil (64). The armature (68) is displaceably guided in a carrier element (78) and the carrier element (78) and the magnetic core (66) are interconnected and surrounded by a housing (69, 70, 71). The region of the connection (90) between the carrier element (78) and the magnetic core (68) is arranged in an inner chamber (91) of the housing (69, 70, 71). A seal (92, 94, 96) is provided between the magnetic housing (69) and the cylinder head (16) of the high pressure pump, said seal sealing the inner chamber (91) of the housing (69, 70, 71) with respect to the exterior of the housing (69, 70, 71).

IPC 8 full level

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Citation (search report)

See references of WO 2018073246A1

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