

Title (en)
ELECTROMAGNETICALLY CONTROLLED VALVE, IN PARTICULAR FOR ANTISLIP HYDRAULIC BRAKING SYSTEMS IN MOTOR VEHICLES

Title (de)
ELEKTROMAGNETISCH BETÄTIGTES VENTIL, INSBESONDERE FÜR SCHLUPFGEREGLTE HYDRAULISCHE BREMSANLAGEN IN KRAFTFAHRZEUGEN

Title (fr)
SOUPAPE A COMMANDE ELECTROMAGNETIQUE, NOTAMMENT POUR SYSTEMES DE FREINAGE ANTIPATINAGE DE VEHICULES A MOTEUR

Publication
EP 0796186 A1 19970924 (DE)

Application
EP 95937780 A 19951118

Priority
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• DE 4445221 A 19941217

Abstract (en)
[origin: DE4445221A1] The object of the invention is to develop a valve having a simple design and cheap to produce capable of automatically setting a reduced flow cross-section depending on its closed position. The valve (14) has a magnet armature (33) that moves in the longitudinal direction in a valve dome (26) and a valve plunger (34) that actuates a seat valve (43). The seat valve lies in a valve chamber (48) from which hydraulic medium channels (65, 74) lead to both faces (59, 67) of the magnet armature (33). When the valve (14) moves away from its closed position, an additional force acts on the magnet armature (33) in the closing direction and places the seat valve in a partially closed position different from its rest position. The magnet armature (33) and the valve plunger (34) are separate pieces that engage each other at a tight seat (61). The valve plunger (34) is designed as a plastic injection-moulded part and has a valve partial chamber (51) that communicates with a longitudinal bore that forms a part of a hydraulic medium channel (65). The valve (14) is particularly suitable for antislip hydraulic braking systems of motor vehicles.

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