

Title (en)

Flow control device for a working fluid

Title (de)

Steuervorrichtung für den Volumenstrom eines hydraulischen Arbeitsmittels

Title (fr)

Dispositif de commande du courant d'un fluide de travail

Publication

EP 0548513 B1 19960410 (DE)

Application

EP 92118860 A 19921104

Priority

DE 4140604 A 19911210

Abstract (en)

[origin: EP0548513A1] The flow-control device for a working fluid has a stop valve (16) in which a seat-valve body (51) is arranged. This seat-valve body interacts with a fixed main valve seat (45). Arranged in the seat-valve body is a pilot-valve member (70) which interacts with a valve seat (61) in the seat-valve body. The seat-valve body is brought to bear against the valve seat by the action of the pressure in a pressure space (68) on one of its end faces. This pressure space (68) is connected to the working cylinder (14) via a choke (67). Via a variable choke point (64, 85), the opening cross-section of which is controlled by the pilot-valve member (70), the pressure in the pressure space (68) and thus the position of the seat-valve body (51) in the stop valve (13) can be influenced by means of the proportional magnet (69) (sequence control). The position of the seat-valve body (51) in the stop valve (12) determines the oil flow from the working cylinder (14) to the tank (11). <IMAGE>

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