

Title (en)

Directional valve for hydraulic motor control.

Title (de)

Hydraulisches Wegeventil zur Steuerung eines Hydromotors.

Title (fr)

Distributeur pour commande d'un moteur hydraulique.

Publication

EP 0491155 B1 19950322 (DE)

Application

EP 91119143 A 19911111

Priority

DE 4040603 A 19901219

Abstract (en)

[origin: EP0491155A1] A hydraulic directional valve (10) for controlling a hydraulic motor (11) is proposed with which the volumetric flow running off from the hydraulic motor to the tank can be controlled independently of load pressure by means of a stop valve (47) which can be hydraulically relieved and protects the hydraulic motor. The stop valve (47) has a control edge (52, 62) suitable for restricting the volumetric flow, and the spool (19), deflected by a proportional magnet (24) against the force of a spring (22), has a control recess (41) which works as a measuring orifice and which, during excessive intermediate pressure upstream of the measuring orifice, closes the spool (19) in a controlled manner by flow forces acting in a closing manner, in the course of which a restriction edge (43) coupled to the spool (19) is adjusted in the control line (64) of the stop valve (47) in order to restrict, as a function thereof, the lowering flow through the stop valve and thus obtain regulation of the volumetric flow independently of load pressure. <IMAGE>

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IPC 8 full level

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CPC (source: EP)

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