

Title (en)  
PILOT VALVE FOR A HYDRAULIC MOTOR

Title (de)  
STEUERVENTIL FÜR EINEN HYDROMOTOR

Title (fr)  
SOUPAPE DE COMMANDE POUR UN MOTEUR HYDRAULIQUE

Publication  
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Application  
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Abstract (en)  
[origin: WO2006111031A1] The invention relates to a pilot valve (3) for a hydraulic motor which is used for lifting loads in a device. Said pilot valve (3) is designed as a directional control valve in which a control slide (20) is movably disposed in a longitudinal bore (22) of the valve body (21) so as to control the flow of hydraulic oil between two working connecting bores (A, B), a pump connecting bore (P), and a reservoir connecting bore (T). A check valve (32) which is biased with the aid of a bias spring (33) is disposed within the control slide (20). Said check valve (32) is connected to an auxiliary control groove (28) via a first transversal bore (29) while being connected to the B-reservoir groove (23) via a second transversal bore (31). The check valve (32) is to be opened from working connecting bore B while the auxiliary control groove (28) is arranged between the B control groove (24) and the B reservoir groove (23) and is delimited on both sides by means of sealing cylindrical areas (35, 36). The invention makes it possible to eliminate the given degree of irregularity d of the hydraulic motor when a load is lifted slowly.

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