

Title (en)
SLIDING HYDRAULIC OUTPUT AND MOMENT REGULATION DEVICE

Title (de)
VERSCHIEBBARE HYDRAULISCHE LEISTUNGS- BZW. MOMENTENREGELEINRICHTUNG

Title (fr)
DISPOSITIF HYDRAULIQUE COULISSANT DE REGULATION DE PUISSANCE ET DE COUPLE

Publication
EP 0826110 B1 19990127 (DE)

Application
EP 96919743 A 19960509

Priority
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• EP 9601970 W 19960509

Abstract (en)
[origin: DE19517974A1] The invention concerns an output and moment regulation device for an adjustable hydraulic pump (1) with a hydraulic servo setter for the continuous adjustment of the delivery rate. Adjustment of the delivery rate is dependent on the delivery pressure of the hydraulic pump (1) in a delivery pressure line (10) and an actuating pressure in a control line (12), and the setter is provided with a spring (4) which forces a pump regulating member (3) in the direction of maximum delivery rate and with at least one piston (6) which acts on the pump regulating member (3) in the direction of delivery rate reduction. The piston face can be subjected via a hydraulically operated control valve (8) to the feed pressure, or is connected to a discharge (19), the control valve (8) is actuated by actuating pressure in the control line (12), and a moment valve (17) is provided whose closure force is set by a metering spring arrangement (18) connected to the pump regulating member (3) and pre-stressed in accordance with the delivery pressure setting; and the moment valve (17) connects the control line (12) to the discharge (19) in accordance with the control pressure in the control line (12) and the pre-stress in the metering spring arrangement (18); and the control line (12) which branches off from the operating pressure line (15) of the pump is provided with an adjustable choke device (13) for adjusting the control pressure acting on the control valve (8) and moment valve (17), specifically, on the closure members thereof.

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Cited by
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