

Title (en)

PROCESS FOR AUTOMATICALLY CONTROLLING A SERVO-VALVE WITH CONTROLLABLE DELIVERY AND PRESSURE

Title (de)

SERVOSTEUERUNGSVERFAHREN EINES SERVOVENTILS WELCHES ZUR STEUERUNG VON DURCHFLUSSUND DRUCK GEEIGNET IST

Title (fr)

PROCEDE D'ASSERVISSEMENT D'UNE SERVOVALVE POUVANT ETRE ASSERVIE EN DEBIT ET EN PRESSION

Publication

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Application

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Abstract (en)

[origin: WO9709663A1] The invention concerns a process for automatically controlling a hydraulic servo-valve with a hydraulic slide valve (1) which is displaced by a rotary actuator (12). The process involves a first loop (2, 5, 11, 12, 4) for automatically controlling the delivery as a function of the measurement of the angular position of the rotary actuator, and a second automatic control loop (1, 3, 6, 21, 22, 23, 11, 12, 4, 2) with variable control as a function of the pressure measurement. The invention is characterized in that the first automatic control loop is a proportional action loop whose increase (Kpa) is constant for values of the absolute pressure difference value (epsilon p) which are less than at least a threshold value, then varies in an increasing manner for values of the absolute pressure difference value (epsilon p) which are greater than this first threshold.

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