

Title (en)

HYDRAULIC CONTROL SYSTEM OF MONOBLOC CONSTRUCTION FOR RAISING AND LOWERING A LOAD WITH AT LEAST TWO ELECTROMAGNETIC PROPORTIONAL TWO-WAY VALVE ELEMENTS

Title (de)

HYDRAULISCHE STEUERUNG IN MONOBLOCKBAUWEISE ZUM HEBEN UND SENKEN EINER LAST MIT MINDESTENS ZWEI ELEKTROMAGNETISCH BETÄTIGBAREN PROPORTIONALWEGEVENTILELEMENTEN

Title (fr)

COMMANDE HYDRAULIQUE DE STRUCTURE MONOBLOC POUR ELEVER ET ABAISSER UNE CHARGE, AVEC AU MOINS DEUX ELEMENTS DISTRIBUTEURS PROPORTIONNELS A COMMANDE ELECTROMAGNETIQUE

Publication

**EP 0799384 A1 19971008 (DE)**

Application

**EP 95937771 A 19951116**

Priority

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Abstract (en)

[origin: DE4446145A1] The invention concerns a hydraulic control system with at least two electromagnetic proportional two-way valve elements, a non-return valve and a pressure balance for raising the load, as the input element, independently of the load pressure. The proportional two-way valve elements are parallel to each other, the electromagnetic drives being disposed adjacent each other on the same side and in particular at the same level. A pressure balance piston is disposed coaxially adjacent a longitudinal slide of the first proportional two-way valve element in a bore which houses both valve elements. The longitudinal slide of the first proportional two-way valve element is supported on the housing via a spring. To this end, at least one component is guided by the pressure balance piston in order to adjust the pretension of a spring. The structural volume of the hydraulic control system is small. The individual valve elements are grouped close to one another and the individual slides, including their linkages, are disposed in a space-saving manner. In addition, individual connections are doubled to allow a greater volumetric flow to pass.

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