

Title (en)
CONTROL VALVE

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WEGEVENTIL

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DISTRIBUTEUR

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Application
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Abstract (en)
[origin: WO02075162A1] The invention relates to a control valve (10) for controlling the pressure and flow of hydraulic oil from or to the working connections (A, B) of a consumer. The pressure and the pressure flow are controlled by means of at least one sliding piston (13) which can be actuated by at least one drive mechanism (15.1, 15.2) and which can be displaced in a slider hole and in co-operating annular channels (19, 21, 22, 23, 24, 25, 26, 28, 29). The invention is characterised in that the annular channels (19, 21, 22, 23, 24, 25, 26, 28, 29) are symmetrically arranged, whereby a tank connection annular channel (19) is arranged in the symmetrical centre point on a symmetrical axis. Annular channels (23, 24) associated with the working connections (A,B), pump-pressure annular channels (25, 26), load-sensing annular channels (28, 29) and end-chamber annular channels (21, 22) are arranged behind each other on both sides. According to the invention, the latter can be connected to other channels. The aim of the invention is to create equivalent hydraulic ratios for both working connections A and B and to keep the number of control edges in the control valve (10) to a minimum.

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Cited by
DE102010051690A1; DE102008006879A1; DE102007054137A1; DE102007054134A1; WO2009095067A1; WO2012065692A1; US8602055B2; US8464757B2; WO2009062572A1; US8479769B2; WO2009062564A1

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