

Title (en)
VALVE ARRANGEMENT WITH PRESSURE BALANCE

Title (de)
VENTILANORDNUNG MIT DRUCKWAAGE

Title (fr)
SYSTEME DE SOUPAPES A BALANCE DE PRESSION

Publication
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Application
EP 97945768 A 19971020

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Abstract (en)
[origin: DE19646445A1] The invention concerns a valve arrangement (1) for supplying, in a manner adapted to the pressure and volume flow, at least one consumer which, via two working connections (A1, B1, A2, B2) of a constantly adjustable directional control valve (4, 6), can be supplied with hydraulic fluid or connected to a tank (T). Associated with the two working connections (A1, B1, A2, B2) of the valve arrangement (1) is a common pressure balance (16, 18) whose piston (66) is guided in an axially displaceable manner in an axial bore (32) in the directional control valve slide (12) such that, when the directional control valve (4, 6) is suitably triggered, one of the two working connections (A1, B1, A2, B2) can be connected alternatively to the pump connection (P). A control pressure (25), which corresponds, for example, to the highest system load pressure, the individual load pressure or a pressure derived therefrom, acts on both end faces of the directional control valve slide (12) and on the spring side of the pressure balance piston (66).

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