

Title (en)  
HYDRAULIC CONTROL DEVICE

Title (de)  
HYDRAULISCHE STEUERVORRICHTUNG

Title (fr)  
DISPOSITIF DE COMMANDE HYDRAULIQUE

Publication  
**EP 1934487 A1 20080625 (DE)**

Application  
**EP 06828803 A 20060929**

Priority  

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Abstract (en)  
[origin: US2008256940A1] The invention relates to a hydraulic control device for a priority, first hydraulic consumer and a subordinate, second hydraulic consumer, pressure medium being deliverable to the first or the second consumer via a first or a second metering diaphragm. A pressure scale which allows a constant pressure difference to be adjusted above the first metering diaphragm is mounted upstream from the first metering diaphragm. For this purpose, said pressure scale is provided with a valve piston encompassing a first control edge, by means of which a first flow area between a feeding duct and the first metering diaphragm can be controlled. A second pressure scale which can be impinged upon in the closing direction by control pressure prevailing in a control chamber while being impinged upon in the opening direction by the pressure applied downstream from the second measuring diaphragm is mounted downstream from the second measuring diaphragm. A variable delivered amount of pressure medium source can be controlled in accordance with the maximum load pressure of the actuated hydraulic consumer such that the pressure in the feeding duct exceeds the maximum load pressure by a certain pressure difference. A load signaling line can be impinged upon by the load pressure of the second hydraulic consumer or a pressure that is derived therefrom while being connected to the control chamber of the second pressure scale and a control member of the pressure medium source. A second control edge which allows a second flow area to be controlled between the feeding duct and the load signaling line is provided on the valve piston of the first pressure scale.

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