

Title (en)

LOAD-SENSING CONTROL DEVICE FOR PRIORITY VALVES

Title (de)

LASTMESSSTEUERUNGSVORRICHTUNG FÜR PRIORITÄTSVENTILE

Title (fr)

DISPOSITIF DE COMMANDE DE DÉTECTION DE CHARGE POUR VANNES DE PRIORITÉ

Publication

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Application

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Priority

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- IB 2016055400 W 20160909

Abstract (en)

[origin: WO2017042741A1] A load-sensing control device (1) for priority valves, comprising: a body (2) inside which is formed at least a first seat (3) communicating with a supply line (4), connectable to pumping means of a working fluid, with an output line (5, 6) of the working fluid, with a load-sensing line (7) adapted to send inside the first seat itself a pressure signal corresponding to the working pressure of at least a priority user point; at least a spool (8) accommodated in a sliding manner inside the first seat (3) to control the flow rate of the working fluid towards the output line (5, 6), on the spool (8) acting at least a first chamber (9) communicating with the load-sensing line (7) and a second chamber (10) communicating with the priority user point, where the first chamber (9) acts on a first extremity (8a) of the spool (8) and the second chamber (10) acts in contrast with the first chamber (9), and where inside the latter are accommodated elastic means (11) adapted to push the spool (8) in contrast with the action applied by the second chamber (10); a third chamber (14) communicating with the first chamber (9) and acting on a portion of the second extremity (8b) of the spool (8) opposite the first extremity (8a) and where the second chamber (10) acts on the remaining portion of the second extremity (8b), the useful surfaces acting on the spool (8) from mutual opposite sides corresponding to that of the remaining portion.

IPC 8 full level

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