

Title (en)

Fluid circuit with load check valve.

Title (de)

Hydraulischer Kreislauf mit Rückschlagventil.

Title (fr)

Circuit hydraulique avec clapet anti-retour.

Publication

EP 0036761 A2 19810930 (EN)

Application

EP 81301185 A 19810319

Priority

US 8000321 W 19800324

Abstract (en)

The spool-type load check valve (20) of this invention, used in conjunction with additional check valves (60, 61) overcomes the problem of leakage in conventional spool type check valves by providing a series of interconnecting passages and chambers (36) for communicating equalized fluid pressure from a cylinder (11) to either end of the spool (27) thereof to provide for minimal leakage. When a pair of such cylinders (11, 12) are utilized, the load check valves (20, 20 min) associated therewith are interconnected by a balance line (50) and resolver valves (47 min) ensure equalization of fluid pressure in the cylinders upon actuation thereof and also a gradual descent of a load carried by the cylinders upon loss of fluid pressure between the check valves.

IPC 1-7

F15B 11/16; **F15B 13/01**

IPC 8 full level

F15B 11/08 (2006.01); **F15B 13/01** (2006.01)

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Designated contracting state (EPC)

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EP 0036761 A2 19810930; **EP 0036761 A3 19820407**; JP S57500347 A 19820225; WO 8102768 A1 19811001

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