

Title (en)  
Load-holding valve

Title (de)  
Lasthalteventil

Title (fr)  
Soupape à maintien de charge

Publication  
**EP 0902194 B1 20021113 (DE)**

Application  
**EP 98109115 A 19980519**

Priority  
DE 29716577 U 19970915

Abstract (en)  
[origin: US5996466A] In a load holding valve L, comprising a check valve R and a pressure limiting valve D in a housing chamber which is common to said two valves, a seat insert 13 has provided therein a valve seat 19 for a closure member 4 of the pressure-limiting valve D and a sealing surface 15 for a check-valve closure member 16, and an opening piston 9, which is coupled to the closure member 4, is provided in a pilot chamber 10, an effective area of said closure member 4 being, in a direction opposite to the direction of spring loading, adapted to be acted upon by the pressure to be limited, the opening piston 9 is formed integrally with the closure member 4 and is provided with a pressure surface in the pilot chamber 10 which is slightly smaller than the cross-sectional area of the valve seat 19, and the valve seat 19 defines in combination with control passages K formed in the closure member 4 a stroke-dependent quantity control device M.

IPC 1-7  
**F15B 13/01**

IPC 8 full level  
**F15B 13/01** (2006.01); **F15B 13/00** (2006.01)

CPC (source: EP US)  
**F15B 11/003** (2013.01 - EP US); **F15B 13/01** (2013.01 - EP US); **F15B 2013/008** (2013.01 - EP US); **F15B 2211/50545** (2013.01 - EP US); **Y10T 137/2562** (2015.04 - EP US); **Y10T 137/778** (2015.04 - EP US)

Cited by  
EP1063431A1; CN105587701A; EP1344945A3; DE102019218401B3; CN112855640A; DE102019218402A1; CN112855638A; DE102019218402B4; DE102022207208A1

Designated contracting state (EPC)  
DE ES FR GB IT NL SE

DOCDB simple family (publication)  
**DE 29716577 U1 19971113**; DE 59806260 D1 20021219; EP 0902194 A1 19990317; EP 0902194 B1 20021113; ES 2186046 T3 20030501; KR 100295425 B1 20010712; KR 19990029263 A 19990426; US 5996466 A 19991207

DOCDB simple family (application)  
**DE 29716577 U 19970915**; DE 59806260 T 19980519; EP 98109115 A 19980519; ES 98109115 T 19980519; KR 19980029945 A 19980724; US 12083298 A 19980723