

Title (en)
HYDRAULIC VALVE BODY AND HYDRAULIC VALVE

Title (de)
HYDRAULIKVENTILKÖRPER UND HYDRAULIKVENTIL

Title (fr)
CORPS DE SOUPAPE HYDRAULIQUE ET SOUPAPE HYDRAULIQUE

Publication
EP 3094901 A1 20161123 (EN)

Application
EP 14870200 A 20141211

Priority

- FI 20136245 A 20131211
- FI 2014050985 W 20141211

Abstract (en)

[origin: WO2015086908A1] A hydraulic valve body (100) comprises two main ports (P1, P2) as well as comprises four outlet ports (C1+, C2+, C5+, C8+) and four respective inlet ports (C3-, C4-, C6-, C7-) for controlling hydraulic fluid between a channel system of the body and actuators (E1-E4). The body is adapted to be configured for at least six different flow circuits in such a way that between one first outlet (C5+) and a second inlet (C7-) the body is provided with a first channel (K1), between one second inlet (C6-) and a second outlet (C8+) the body is provided with a second channel (K2), between one third inlet (C4-) and a fourth inlet (C3-) the body is provided with a third channel (K3). In addition, the body also comprises a fourth channel (K4) provided between the first outlet (C5+) and the third outlet (C1+), said fourth channel (K4) being adapted to be openably closable (T4), and wherein the body also comprises a fifth channel (K5) provided in the body between the fourth outlet (C2+) and the second main port (P2), said fifth channel (K5) being adapted to be openably closable (T3). In addition, in connection with said channels (K1, K2, K3) are provided control channels (MK1, MK2) for two control elements (M1, M2) to be controlled from outside independently of each other, such that the first control element has its channel extending through the channels (K1, K2, K3) and arranged in communication with two outlet ports (C2+, C8+) and two inlet ports (C3-, C7-) and the second control element has its channel extending through the channels (K1, K2, K3) and arranged in communication with two outlet ports (C1+, C5+) and two inlet ports (C4-, C6-).

IPC 8 full level
F16K 11/22 (2006.01); **F15B 21/00** (2006.01)

CPC (source: EP FI)
F15B 13/0842 (2013.01 - EP); **F15B 13/0896** (2013.01 - EP); **F15B 21/00** (2013.01 - FI); **F15B 13/0871** (2013.01 - EP);
F15B 2013/006 (2013.01 - EP)

Cited by
CN106224597A

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
WO 2015086908 A1 20150618; EP 3094901 A1 20161123; EP 3094901 A4 20171101; FI 125380 B 20150930

DOCDB simple family (application)
FI 2014050985 W 20141211; EP 14870200 A 20141211; FI 20136245 A 20131211