

Title (en)  
PROPORTIONAL PRESSURE CONTROL VALVE

Title (de)  
PROPORTIONAL-DRUCKREGELVENTIL

Title (fr)  
SOUPAPE DE REGULATION DE PRESSION PROPORTIONNELLE

Publication  
**EP 1629208 A1 20060301 (DE)**

Application  
**EP 04726462 A 20040408**

Priority  
• EP 2004003758 W 20040408  
• DE 10325178 A 20030604

Abstract (en)  
[origin: WO2004109124A1] The invention relates to a proportional pressure control valve comprising a valve housing (10) with at least three ports that conduct fluid, in particular in the form of a pump port (P), a utilisation port (A) and a tank port (T), a regulating piston (18) being configured to be displaced longitudinally in the valve housing (10) for the selective connection of the pump port (P) to the utilisation port (A), or of the utilisation port (A) to the tank port (T). Said piston is provided with a connection channel (24) for establishing a fluidic connection between the pump port (P) and a servo chamber (20) of a servo valve (22), the latter (22) being controlled by a magnetic system (28), in particular a proportional magnetic system. When the servo valve (22) is open, the fluidic path (58) that is partially guided through the valve housing (10) between the connection channel (24) and the tank port (T) is released, the latter having a simultaneous fluidic connection to the utilisation port (A).

IPC 1-7  
**F15B 13/04**

IPC 8 full level  
**G05D 16/20** (2006.01)

CPC (source: EP US)  
**G05D 16/2024** (2018.12 - EP US); **G05D 16/2097** (2018.12 - EP US); **Y10T 137/86614** (2015.04 - EP US)

Citation (search report)  
See references of WO 2004109124A1

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**WO 2004109124 A1 20041216**; DE 10325178 A1 20050105; EP 1629208 A1 20060301; JP 2006526740 A 20061124;  
US 2006054225 A1 20060316

DOCDB simple family (application)  
**EP 2004003758 W 20040408**; DE 10325178 A 20030604; EP 04726462 A 20040408; JP 2006508146 A 20040408; US 54410505 A 20050802