

Title (en)

PROPORTIONAL VALVE, IN PARTICULAR FOR A CAMSHAFT ADJUSTER

Title (de)

PROPORTIONALVENTIL, INSBESONDERE FÜR EINEN NOCKENWELLENVERSTELLER

Title (fr)

VALVE PROPORTIONNELLE, EN PARTICULIER POUR UN DISPOSITIF DE RÉGLAGE D'ARBRE À CAMES

Publication

**EP 2539554 A1 20130102 (DE)**

Application

**EP 11701505 A 20110125**

Priority

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- EP 2011050977 W 20110125

Abstract (en)

[origin: WO2011104058A1] The invention relates to a proportional valve (1), comprising a piston guide sleeve (4) and a valve piston (3) that can be moved in the piston guide sleeve (4), and further comprising a check valve (13) arranged in a pressure medium inlet (10) to the proportional valve (1). According to the invention a proportional valve (1) is provided, in which the adaption of the check valve (13) to the proportional valve (1) is improved with respect to the prior art. This is achieved in that the check valve (13) is arranged in an annular gap (14) surrounding the piston guide sleeve (4) in the region of the pressure medium inlet (10).

IPC 8 full level

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CPC (source: EP KR US)

**F01L 1/047** (2013.01 - KR); **F01L 1/344** (2013.01 - EP KR US); **F01L 2001/34426** (2013.01 - KR); **Y10T 29/49405** (2015.01 - EP US); **Y10T 137/7837** (2015.04 - EP US)

Citation (search report)

See references of WO 2011104058A1

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