

Title (en)

Control valve for variable displacement compressor

Title (de)

Regelventil für einen Verdichter mit variabler Verdrängung

Title (fr)

Soupape de contrôle pour compresseur de déplacement variable

Publication

**EP 2918833 B1 20161005 (EN)**

Application

**EP 15153882 A 20131209**

Priority

- JP 2012270291 A 20121211
- EP 13196256 A 20131209

Abstract (en)

[origin: EP2743504A1] A control valve (1) includes a body (5) having a main passage communicating a discharge chamber with a crankcase and a sub-passage communicating the crankcase with a suction chamber, a main valve provided in the main valve passage, a sub-valve passage provided in the sub-passage, a pressure-sensing section (6) for receiving the suction pressure of the suction chamber and generating a drive force exerted in an opening direction of a main valve in accordance with the magnitude of the suction pressure, and a solenoid (3) for generating a drive force in a closing direction of the main valve in accordance with the amount of current supplied. A valve-opening mechanism used to open the sub-valve by using the drive force of the solenoid is further included. The outside diameter of the body becomes smaller toward the pressure-sensing section side from the solenoid side. The pressure-sensing section, the main valve, the sub-valve, and the solenoid are arranged in this order from one end side of the body. The sub-valve is provided on a side closer to the solenoid where the outside diameter of the body is larger.

IPC 8 full level

**F04B 27/18** (2006.01)

CPC (source: EP KR)

**F04B 27/14** (2013.01 - KR); **F04B 27/1804** (2013.01 - EP); **F04B 53/10** (2013.01 - KR); **F04B 2027/1813** (2013.01 - EP); **F04B 2027/1827** (2013.01 - EP); **F04B 2027/1831** (2013.01 - EP); **F04B 2027/1859** (2013.01 - EP)

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