

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)

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