

Title (en)

Displacement control valve for use in a variable displacement compressor

Title (de)

Hubregelungsventil zur Verwendung in einem Kompressor mit veränderlicher Fördermenge

Title (fr)

Soupape de contrôle de déplacement utilisée dans un compresseur à capacité variable

Publication

EP 0945618 A3 20000301 (EN)

Application

EP 99105500 A 19990317

Priority

JP 9675098 A 19980325

Abstract (en)

[origin: EP0945618A2] In a displacement control valve for use in a variable displacement compressor in which a displacement is variable with opening and closing of a communication passage between a crank chamber and a suction chamber, an operating point control arrangement (21, 23, 24) transmits discharge pressure of a discharge chamber to a valve body (7) to control an operating point of the valve body. A pressure transmission control arrangement (25, 26, 27, 28) is interposed between the discharge chamber and the operating point control arrangement and controls transmission of the discharge pressure to the operating point control arrangement. A pressure sensing member (6) senses, as sensed pressure, one of suction pressure and crank pressure to have a size variable in response to the sensed pressure. The valve body operates in response to the size of the pressure sensing member to open and close the communication passage. <IMAGE>

IPC 1-7

F04B 27/18

IPC 8 full level

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CPC (source: EP)

F04B 27/1804 (2013.01); **F04B 2027/1813** (2013.01); **F04B 2027/1831** (2013.01); **F04B 2027/185** (2013.01)

Citation (search report)

- [X] EP 0366348 A1 19900502 - SANDEN CORP [JP]
- [A] EP 0519598 A1 19921223 - SANDEN CORP [JP]

Cited by

EP4234997A3; US12072035B2; US11988296B2; US6637223B2; US12031531B2

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