

Title (en)

CONTROL VALVE FOR VARIABLE DISPLACEMENT COMPRESSOR

Title (de)

REGELVENTIL FÜR EINEN KOMPRESSOR MIT VERÄNDERLICHER VERDRÄNGUNG

Title (fr)

VANNE DE REGLAGE A DEPLACEMENT VARIABLE POUR COMPRESSEUR

Publication

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Application

EP 99905271 A 19990223

Priority

JP 9900786 W 19990223

Abstract (en)

A control valve for variable displacement compressor that prevents fluid fixation between a rod and a guide hole is provided. A first rod (89) extends through a first guide hole (88) to couple a bellows (87) to a valve body (74). A second rod (96) extends through a second guide hole (95) to couple a movable iron core (93) to the valve body (74). Tapered surfaces (89b, 96b) are formed on the outer surfaces of the first and second rods (89, 96). The space between each tapered surface (89b 96b) and the inner surface (88a, 95a) of the corresponding guide hole (88, 95) is wider in the vicinity of a high pressure zone (73, 90) than in the vicinity of a low pressure zone (84, 91). <IMAGE> <IMAGE> <IMAGE>

IPC 1-7

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CPC (source: EP)

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Citation (third parties)

Third party :

- JP H06346843 A 19941220 - TOYODA AUTOMATIC LOOM WORKS
- JP H06346843 K1
- JP S56120873 A 19810922 - TOYOOKI KOGYO KK
- JP S56120873 K1
- JP H04350372 A 19921204 - TOYODA AUTOMATIC LOOM WORKS
- JP H04350372 K1
- JAPAN SOCIETY OF MECHANICAL ENGINEERS, MARUZEN CO., LTD.: "JSME mechanical engineers' handbook", 15 April 1987, ISBN: 4-88898-057-8, pages: B5-204 - B5-205, XP002997811

Cited by

EP1467098A3; DE10315781B4; DE10362313B4; DE10362313B8

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