

Title (en)

Thrust bearing for the swash plate of a compressor

Title (de)

Lager für die Taumelscheibe eines Kompressors

Title (fr)

Palier de poussée pour le plateau oscillant d'un compresseur

Publication

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Application

EP 00114538 A 20000706

Priority

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Abstract (en)

A variable displacement compressor that prevents inclination of a lug plate when the displacement is less than the maximum displacement. A thrust bearing 61 is located between the lug plate 17 and the front housing member 11. The thrust bearing 61 is annular and centered on the axis L of the drive shaft 16. The thrust bearing 61 receives a compression load F applied to the lug plate 17 from pistons 22 through a swash plate 18 and a hinge mechanism 19. The radius 11 of the thrust bearing 61 is greater than the distance between the contact point of the hinge mechanism 19 and the axis L of the drive shaft 16 when the inclination of the swash plate 18 is maximized. Therefore, the compression load F is applied within the radius of the thrust bearing, which reduces noise and vibration. <IMAGE>

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