

Title (en)
Dual flow single cell rotary compressor.

Title (de)
Drehkolbenkompressor mit zwei Ansaugkanälen.

Title (fr)
Compresseur rotatif avec deux canaux d'admission.

Publication
EP 0436331 A1 19910710 (EN)

Application
EP 90313625 A 19901214

Priority
US 45948790 A 19900102

Abstract (en)
A rotary compressor having a frame defining a cylindrical aperture (11) and a vane slot (13) extending radially outwardly from the cylindrical aperture is provided. The frame also defines a first inlet port (43) extending radially outwardly from said cylindrical aperture through the frame on one side of the vane slot. A second inlet (53) extends radially outwardly from the cylindrical aperture through the frame and is situated substantially diametrically opposite the vane slot. A first check valve (45-51) is situated in the first inlet port for permitting flow only radially inwardly. A vane (33) is slidably mounted in the vane slot. Two journal bearing plates (21 (not in Fig. 1) and 23) each defining a journal bearing extending axially therethrough, are situated on either side of the cylindrical aperture defining a cylindrical chamber. One journal bearing plate (21) further defines an outlet port (55) extending axially through it. The outlet port is situated on the other side of the vane from the first inlet port. A second check valve is situated in the outlet port for permitting flow only from the cylindrical chamber. A shaft (15) extends through the cylindrical chamber and is rotatably mounted in the journal bearings of the first and second journal bearing plates. The portion of the shaft situated in the cylindrical chamber has an eccentrically extending circular lobe (27). A rolling piston (31) surrounds the circular lobe and contacts a portion of the cylindrical chamber periphery and the two journal plates. <IMAGE>

IPC 1-7
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IPC 8 full level
F04C 18/356 (2006.01); **F04C 29/12** (2006.01)

CPC (source: EP)
F04C 18/3564 (2013.01); **F04C 29/126** (2013.01)

Citation (search report)
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