Title (en)
ROTARY CYLINDER ROTARY SLIDE POSITIVE-DISPLACEMENT PUMP

Title (de)
DREHZYLINDERDREHSCHIEBERVERDRÄNGERPUMPE

Title (fr)
POMPE VOLUMÉTRIQUE À TIROIR ROTATIF ET CYLINDRE ROTATIF

Publication
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Application
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Abstract (en)
[origin: WO2009012877A1] The rotary cylinder rotary slide positive-displacement pump described here makes it possible for three of four chamber walls to co-rotate during the pumping process. Said three chamber walls thus move together with the pump fluid through the working chamber. The result of this and the design of the pump lead to a favourable energetic and volumetric efficiency. The reduced friction reduces the energy requirement for the pumping work. The inner walls, which are smooth and solid on all sides, of the working chambers allow the pump fluid to be conveyed in a gentle manner. This technology provides fewer wear surfaces for abrasive substances. The pumping volume per rotation is greater than the volume of the pump chamber. The pump is of compact design. It is self-priming and capable of dry running. It reaches high pressures which can be kept constant. In contrast to many conventional pump types, no drive shaft leads through the pump chamber. The sum of the properties of this pump technology and the favourable conditions for further technical embodiments make this product suitable as a process pump in industrial applications.

IPC 8 full level
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