

Title (en)  
OSCILLATING PISTON-TYPE MULTIFUNCTIONAL VOLUMETRIC PUMP

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Application  
**EP 87400045 A 19870112**

Priority  
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Abstract (en)  
[origin: EP0236148A2] The invention relates to devices for taking up axial and radial play and to a self-operating system for improving the volumetric and mechanical efficiency of an oscillating piston-type volumetric pump. A radial compression component (3) presses a piston (1) against a body (2). An axial compression component (8) presses on a front plate (10) containing a pressure-equalizing aperture (11), which presses the piston (1) onto a rear plate (12). The piston (1) has a slit in which an elastic component produces firm contact of the piston with a diaphragm (19). A rotating glass component (27) bears permanently on a fixed abutment (24) thus forming a sealing gasket. These devices are intended especially for volumetric pumps carrying out high and low pressure transfer operations in chemistry and parachemistry. The flow rate may be fixed or variable. Mixing, grinding and filtering. <IMAGE>

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Citation (search report)

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