

Title (en)

MEMBRANE PUMP WITH POSITIONAL CONTROL

Title (de)

MEMBRANPUMPE MIT LAGENSTEUERUNG

Title (fr)

POMPE À MEMBRANE AVEC CONTRÔLE POSITIONNEL

Publication

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Application

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Abstract (en)

[origin: CA2909976A1] The invention relates to a diaphragm pump, comprising a pumping chamber, a suction connection and a pressure connection, which are both connected to the pumping chamber, a working chamber, which is filled with a hydraulic fluid, a device for applying an oscillating pressure p1 to the hydraulic fluid, a diaphragm, which separates the pumping chamber and the working chamber from each other and can be moved back and forth between a pressure stroke position and a suction stroke position, wherein the volume of the pumping chamber is smaller in the pressure stroke position of the diaphragm than in the suction stroke position of the diaphragm, and a storage chamber for accommodating hydraulic fluid at the pressure p2, wherein the storage chamber and the working chamber are connected to each other by means of a valve having a closing part. According to the invention, in order to provide a diaphragm pump of the type mentioned at the beginning that has a simple construction and reliably ensures that the diaphragm cannot move too far beyond the pressure stroke position, the diaphragm is coupled to the closing part in such a way that the valve is opened when the diaphragm moves from the pressure stroke position to a position that is farther from the suction stroke position.

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