

The invention relates to the mechanical engineering, namely to devices meant for conversion of liquid or compressible fluid media potential power into the mechanical one, and may be used in hydraulic or pneumatic actuators, internal combustion engines with carburation or fuel injection, as well as in external combustion engines, vacuum machines, and volumetric flow meters for liquid and compressible fluid media.

The machine contains a rotor 5 with coaxially placed into the body 1 two cylinders – internal 7 and external 8, joined by a transversal wall 9 and by a partition 10, wherein there are made an internal port 22 for communication of the cavities (a) of variable volume with the inner collector and an external port for communication of the cavities (d) of variable volume with the outer collector, as well as a rotor-separator 19, including a separating cylinder 20 and a frontal disk 21, the axis of rotation of which is eccentrically placed about the axis of rotation of the rotor 5, at the same time when the cavities (a) of variable volume, joined with the inner collector, permanently increase, the cavities (d) of variable volume, joined with the outer collector, permanently decrease. Into the lateral wall of the body 1 there is made an orifice 18, into the spike 12 of the drive shaft there is made the axial orifice 17, and into the distributing cover 15 for working medium leakage – the orifice 16.

Claims: 10

Fig.: 14

