



# An Electromagnetic Reciprocating Pump

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Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | Closer Look to a motor-less mini pump | Almost all the pumps increase the pressure energy of the liquid which is subsequently converted into potential energy as the liquid is lifted from a lower level to a higher level. Positive displacement pump is one of the categories of the pump. Positive displacement pump is also known as reciprocating pump on the basis of its operation. In general reciprocating pump a electric motor is used along with crank and connecting rod assembly to drive the reciprocating motion of the piston. When the crank gets rotating motion of from the motor the piston moves in backward and forward direction. Solenoid or electromagnetic coil can be used as the driving source. Electromagnetic field created by the solenoid or electromagnetic coil can control the two and fro motion of the piston of the pump. Ferromagnetic materials have a large and positive susceptibility to an external magnetic field. They exhibit a strong attraction to magnetic fields and are able to retain their magnetic properties after the external field has been removed. By creating this magnetic field with a certain time interval the reciprocating motion of the shaft can...



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