

Product Name :
Submersible Pump Test Rig

Product Code :
NLAB-MECHANICALAB220013



Description :

Submersible Pump Test Rig

Technical Specification :

The developed submersible pump Test Rig is a self-contained unit operated on closed circuit basis containing a sump tank. The set-up consists of a submersible pump coupled with a DC Motor. Power input to the DC Motor is varied by means of a Thruster controlled DC Drive to vary the RPM of motor. A RPM Indicator with Proximity sensor indicates the RPM of Pump. Flow of water is measured by using measuring tank and stopwatch. Vacuum gauge is fitted on suction line and Pressure gauge is fitted on delivery line to measure the pressure.

The experimental unit includes a self-priming Submersible pump, a ball valve on the outlet side and manometers on the inlet and outlet side. An asynchronous motor drives it. The speed is infinitely adjustable by using a frequency converter. A ball valve is used to adjust the head.

The experimental unit is positioned easily and securely on the work surface of the pump draws in water from the tank on the flow rate is determined volumetrically by flowing back into the measuring tank.

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FEATURES

Characteristic curve of a Submersible pump

Investigation of a Submersible pump

Drive with variable speed via frequency converter

Ball valve to adjust the head

Manometers on the inlet and outlet side of the pump

Digital display of speed and power

Measuring the inlet and outlet pressure

Determining the flow rate

Recording the pump characteristics for different speeds

Power and efficiency curves

Measuring the electrical drive power

Determining the hydraulic power

Calculating the efficiency

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