

Product Name :
Centrifugal Pump Test Rig

Product Code :
DM854



Description :

Centrifugal Pump Test Rig

Technical Specification :

The present Centrifugal Pump Test Rig is a self-contained unit operated on closed circuit basis containing a sump tank. The set-up consists of a Centrifugal pump coupled with a swinging frame type DC Motor which permits direct torque measurement with the help of a spring balance. Power input to the DC Motor is varied by means of a Thyristor controlled DC Drive to vary the RPM of a motor. An RPM Indicator with Proximity sensor indicates the RPM of Pump. The flow of water is measured by using a measuring tank and stop watch. A vacuum gauge is fitted on suction line and a Pressure gauge is fitted on a delivery line to measure the pressure. Centrifugal Pump Test Rig is a self-contained unit operated on closed circuit basis containing a sump tank. The set-up consists of a Centrifugal pump coupled with a swinging frame type DC Motor which permits direct torque measurement with the help of a spring balance. Power input to the DC Motor is varied by means of a Thyristor controlled DC Drive to vary the RPM of a motor. An RPM Indicator with Proximity sensor indicates the RPM of Pump. The flow of water is measured by using the measuring tank and stop watch. A vacuum gauge is fitted on suction line and the Pressure gauge is fitted on the delivery line to measure the pressure. Learning Objectives/Experiments: To determine total head, Pump Output, overall efficiency and pump efficiency of the centrifugal pump. To plot Head vs Discharge, Pump efficiency vs Discharge, Pump Output vs Discharge.

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