

Product Name :
Gear Pump Test Rig**Product Code :**
ALABS-A104-051**Description :****Gear Pump Test Rig**

The setup is designed to study the performance of gear pump.

Set up consists of a gear pump having a pair of meshed gears coupled with electrical motor, supply tank, measuring tank & pipe fittings for closed loop oil circulation. Pressure and Vacuum gauges are connected on delivery and suction side of pump for the purpose of measurement.

The flow rate of water is measured using measuring tank and stop watch provided

Experiment:

- To determine overall efficiency and pump efficiency of the gear pump.
- To plot Head vs. Discharge, Pump efficiency vs. Discharge

Utilities Required:***Electric supply***

- Provide 230 +/- 10 VAC, 50 Hz, single phase electric supply with proper earthing. (Neutral – Earth voltage less than 5 VAC.),
- 5A, three pin socket with switch for pump

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