

Product Name :
Gear pump test rig / oil pump test rig (A.C motor)

Product Code :
HYDRAULIC0002



Description :

Gear pump test rig / oil pump test rig (A.C motor)

Technical Specification :

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 of 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.

Experiments

To determine overall efficiency and pump efficiency of the gear pump.

To plot Head vs. Discharge, Pump efficiency vs. Discharge

Features:

Closed-loop circulation

Compact & stand alone set-up

Stainless Steel tanks and wetted parts

Superb Painted structure

Simple to operate & maintain

Utilities Required:

Electric supply Provides 230 +/- 10 VAC, 50 Hz, single phase electric supply with proper earthing

Grounded Earth voltage less than 5 VAC ; SA, three pin socket with switch for pump.

Oil supply Oil @ 30 liters

Technical Details:

Product Gear Pump Test Rig Gear Pump Test Rig

Pump Gear pump with pair of meshed gears, Capacity 1 HP , Speed 1500 RPM (max.), Head 5 kg/cm² (max.)

Drive AC AC motor with step cone pulley arrangement for 3 pre-fixed speed

DC DC motor with DC drive along with non-contact type digital RPM indicator

Supply Tank Capacity 30 Ltrs, MDC SS

Measuring Tank Capacity 20 Ltrs, MDC SS fitted with Pressuremeter Tube & scale

Piping GI / PVC

Step Switch Electronic

Control Panel With required electrical instrumentation

 **LAB ENGINEERING**

Elab Engineering Equipments Manufacturers