

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

Expert Painted structure

Simple to operate & maintain

Utilities Required:

Electric supply Provides 230 v-110 VAC, 50 Hz, single phase electric supply with proper earthing

Ground Earth Voltage less than 5 VAC; 1 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

Safety Tank Capacity: 30 Ltrs, MDC SS

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

Piping: GI / PVC

Stop Watch: Electronic

Control Panel: With required electrical instrumentation

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