

Gear Pump Test Ring (Variable Speed With Swinging field Dynamometer)



Product Categories: [Engineering Equipment](#), [Hydraulic Lab](#)

Product Page:

<https://www.labappara.com/product/gear-pump-test-ring-variable-speed-swinging-field-dynamometer/>

Product Description

Gear Pump Test Ring (Variable Speed With Swinging field Dynamometer)

The present Gear Pump Test Rig is a self-contained unit operated on closed circuit basis containing a sump tank. The set-up consists of a Gear Pump having a pair of meshed gears, 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 motor. A RPM Indicator with Proximity sensor indicates the RPM of Pump. Flow of fluid is measured by using measuring tank and stop watch. Vacuum gauge is fitted on suction line and Pressure gauge is fitted on delivery line to measure the pressure.

Technical Details:

Pump: Speed 1500 RPM (max.) Capacity 1 HP, Head 5kg/cm² (max.)

Medium Flow: Clear Oil

Drive: 1 HP DC motor swinging frame type with Thyristor controlled DC Drive for variable speed

Spring Balance: Dial type

Sump Tank: Capacity 35 Ltrs. (approx.)

Flow Measurement: Using Measuring Tank (Capacity 20 Ltrs. (approx.)) and

Electronic Stop Watch

Pressure Gauge: Bourdon type

Vacuum Gauge: Bourdon type

Control Panel Comprises of:

RPM measurement: Digital RPM Indicator with Proximity sensor

Standard make On/Off Switch, Mains Indicator, etc

Instruction Manual: An English instruction manual will be provided along

with the Apparatus Tanks will be made of Stainless Steel

The whole set-up is well designed and arranged in a good quality painted structure