

Product Name :
Plunger Pump Demonstration Unit

Product Code :
NLAB-MECHANICALAB230028



Description :

Plunger Pump Demonstration Unit

Technical Specification :

The motor-driven plunger pump, mounted on a stainless steel plinth with a water reservoir, pulsation damper and pipework for continuous circulation. The pump head, measuring tank, pulsation damper and the water reservoir are manufactured from clear acrylic for maximum visibility. The pump outlet is connected to both a sprung loading valve and a needle valve to investigate different loading characteristics. A pressure relief valve protects the operator and the equipment. An additional valve can be used to isolate or include the pulsation damper, allowing the effect of damping to be investigated

Electronic sensors measure the instantaneous cylinder pressure within the pump, the pump displacement and the cumulative flow over a period of time.

Plunger Pump Demonstration Unit

FEATURES:

A small-scale plunger pump demonstration unit, comprising of a water reservoir, pump, control valve, relief valve and interconnecting pipework, all mounted on a stainless steel base

Includes both a sprung loading valve and a needle valve for loading the pump

Equipped with electronic measurement sensors for cylinder pressure, plunger position, pump outlet pressure and cumulative flow

Pulsation damping facility

Transparent pump head for visibility

Supplied with software providing full instructions for setting up, operating, calibrating and performing the teaching exercises. Facilities for logging, processing and displaying data graphically.

SPECIFICATION:

Max flow rate: 0.725 l/m typical

Max head: 4 bars

Swept volume: 15mm stroke x 32mm diameter

Pumping speed: Variable up to 60 strokes/min

Motor power rating: 250W

Power required: 230v, 1ph

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