

Product Name :
Hydraulic Ram Test Rig for engineering schools

Product Code :
Fluid Machinery008

Description :

Hydraulic Ram Test Rig, technical teaching equipment for engineering

Owing to our expertise and the assistance of dedicated workforce, we have been able to offer optimum quality **Hydraulic Ram Test Rig** at an affordable market price. These products are precisely manufactured under strict supervision using best quality metal. Known for unmatched quality, high efficiency and hassle-free operations, these products are highly demanded among the industrial clients.

Description:

- Hydraulic
Ram is used for pumping small quantity of water at high head, when large quantity of water at small head is available. It operates on the principle that if flowing water is suddenly brought to rest in a long pipe, a phenomena known as water hammer occurs, wherein a pressure wave travels along the pipe. This principle is used in the Hydraulic Ram to pump water. The set-up consists of a box incorporating pulse and non-return valves and a supply reservoir on a stand which is fed by the overhead tank. An air vessel above the valve chamber smoothes cyclic fluctuations from the Ram delivery. Different pressure may be applied to the pulse valve to change the closing pressure and hence the operating characteristic.

Experimentation:

- To find out discharge of useful water and waste water
- To find out the efficiency of the Hydraulic ram

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.
- Water supply
- Tap water connection ” BSP
- Distilled water @ 250 liters (optional)

Technical Specifications:

- Ram: Supply Head 1.0 m, Delivery Head 4 m (Max.)
- Water Circulation: FHP Pump, Crompton make.
- Sump Tank: Capacity 140 Ltrs. (approx.)
- Overhead Tank: Capacity 50 Ltrs. (approx.)
- Air Vessel: Suitable Capacity
- Flow Measurement: Using Measuring Tank & Electronic Stop Watch for waste water and for useful water
- Pressure Gauge: Bourdon type
- Instruction Manual: An ENGLISH instruction manual will be provided along with the Apparatus

Technical Specification :

Hydraulic Ram Test Rig

Naugra Export

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