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Product Name :

Hydraulic Ram Pump

Product Code :

SLE/EFM/24



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Description :

Hydraulic Ram Pump (Product Code: SLE/EFM/24) demonstrates a pump with no motor at all: it uses the momentum of a large, slow-moving column of water to lift a smaller amount of water to a higher level. The apparatus has three main parts — a wall-mounted header tank, the pump, and the interconnecting pipework — with an inner and outer valve on the supply pipe and an airvessel to reduce hydraulic shock. It is used in mechanical, civil and agricultural engineeringteaching, and is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, alaboratory instruments supplier in India.

Specifications

Parameter	Detail
Pump type	Hydraulic ram — not a normal mechanically-operated pump
Main parts	Header tank, pump, and interconnecting pipework
Header tank	Mounts to a suitable wall
Valves	Supply pipe fitted with an inner and an outer valve
Outer valve loading	Weight platform for loading with the weights provided, which changes the pump’s cycle times
Shock control	Air vessel to reduce hydraulic shock
Weights	Provided

Typical Use

Water runs down the supply pipe from the header tank and escapes through the outer valve until its speed is enough to snap that valve shut. The sudden stop acts like a plunger: the moving column’s energy forces some water through the inner valve into the delivery pipe, the air vessel cushions the pressure pulse, and the cycle repeats on its own. Students measure how much water is delivered and how much is spilled at the outer valve, then calculate the pump’s efficiency from the flows and heads involved.

Adding weights to the outer valve platform changes how long each cycle lasts, so the class can investigate how cycle time affects delivered flow and efficiency. Fix the header tank securely to a wall that can carry its full weight of water, keep the valves free of debris, and check the air vessel still holds air if the pump becomes noisy. The ram pump is a memorable way to show how the water hammer effect can be turned into useful work in places without electricity.

Manufacturer

Our hydraulic ram apparatus is manufactured by **Jain Scientific Equipments Private Limited**, better known by its **ScienceLab** brand, in Ambala, Haryana. Registered as an MSME manufacturing enterprise (Udyam UDYAM-HR-01-0003714), the company ships overseas orders under DGFT Importer-Exporter Code AAECJ8618A. Visit the company profile for more back

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