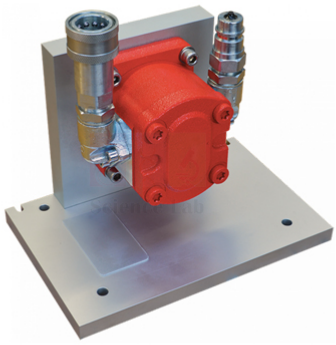
Email : sales@scilabexport.com
Phone: +91-7082934803

Product Name :

Gear Pump

Product Code :

SLE/EFM/02



Email : sales@scilabexport.com
Phone: +91-7082934803

Description :

The **Gear Pump** (Product Code: SLE/EFM/02) is a positive displacement pump in which a pair of meshing gears carries a fixed volume of oil from inlet to outlet on every full rotation of the shaft. Designed to fit the Positive Displacement Pump Module, it gives students a hands-on way tostudy one of the simplest and most widely used hydraulic pump designs through experiments, demonstrations and projects. It is manufactured by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, an engineering lab equipment manufacturer serving technical colleges and training institutes.

Specifications

Parameter	Detail
Pump type	Positive displacement gear pump
Pumping element	Double gears
Working fluid	Oil
Delivery	A given volume of fluid for each full rotation of the pump shaft
Flow direction	Generally set by gear rotation; test in one direction only, determined by the Universal Dynamometer
Connections	Self-sealing, reducing oil spillage and simplifying installation on the pump module
For use with	Positive Displacement Pump Module

Typical Use

Gear pumps are found in lubrication systems, machine-tool hydraulics and mobile equipment, so the experiments carry over directly to what students will see in industry. On the module, the class runs the pump at several speeds, notes how delivered flow follows speed almost in step, and then raises the outlet pressure to observe the torque demand increase and the small drop in flow caused by leakage past the gear teeth. Working out the displacement per revolution from measured data, and comparing it with the value expected from the gear geometry, is a good exercise in engineering estimation.

For TVET and diploma courses that need mechanics lab equipment in India with a clear link to maintenance work, running the gear pump alongside a vane pump on the same module lets learners compare noise, flow smoothness and efficiency between the two designs. The self-sealing connections make that swap quick and tidy. Keep the oil topped up and clean, and never run the pump dry.

Manufacturer

The Gear Pump is produced by Jain Scientific Equipments Private Limited of Ambala, Haryana — the company behind the ScienceLab name — which designs and builds apparatus for engin

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Email : sales@scilabexport.com
Phone: +91-7082934803