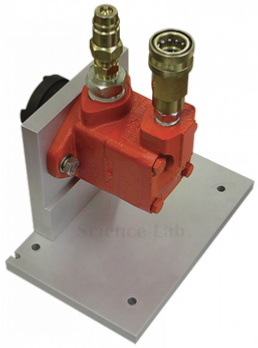
Email : sales@scilabexport.com
Phone: +91-7082934803

Product Name :

Vane Pump

Product Code :

SLE/EFM/01



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

Description :

The **Vane Pump** (Product Code: SLE/EFM/01) is a fixed displacement, balanced vane pump that delivers a set volume of oil for every full turn of its shaft. It is built for use with the Positive Displacement Pump Module, where students run it for experiments, demonstrations and project work on hydraulic machines. Produced by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, it belongs to our engineering lab equipment in India for polytechnics, engineering colleges and technical training centres.

Specifications

Parameter	Detail
Pump type	Positive displacement, fixed displacement balanced vane
Working fluid	Oil
Delivery	A given volume of fluid for each full rotation of the pump shaft
Flow direction	Set by pump rotation; tested in one direction, determined by the Universal Dynamometer
Connections	Self-sealing, to reduce oil spillage and simplify installation on thepump module
For use with	Positive Displacement Pump Module
Dimensions	300 mm x 300 mm x 300 mm (approx)
Weight	9 kg

Typical Use

Once the pump is mounted on the Positive Displacement Pump Module and coupled to the Universal Dynamometer, students can vary shaft speed and delivery pressure and record how flow, torque and power respond. Because a positive displacement pump moves a fixed volume per revolution, the class can compare the theoretical flow with the measured flow to find volumetric efficiency, and see how internal leakage grows as pressure rises. In a balanced vane design, opposing pressure zones inside the housing help even out the side loads on the rotor, a point worth discussing when comparing it with other pump types.

Among lab equipment for technical institutes, interchangeable pumps like this one let a single test module cover several machines in one term. The self-sealing connections keep oil where it belongs during changeovers, so students can remove and fit the pump without draining the circuit. Wipe connections before fitting, keep the oil clean, and follow the direction of rotation set by the dynamometer.

Manufacturer

Jain Scientific Equipments Private Limited, known to customers by its ScienceLab brand, manufactures teaching equipment in Ambala, Haryana. It holds MSME registration under Udyam UDY
Code

Rela

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