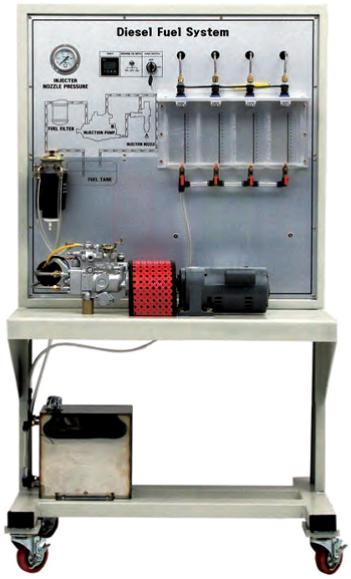
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**Product Name :**

Diesel Fuel Injection System VE pump

**Product Code :**

SLE/ATE/03



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## Description :

The Diesel Fuel Injection System VE pump is a bench for measuring fuel injection against pump speed. A single-phase ½ HP motor turns the VE pump, a distributor-type rotary injection pump, and a timer sets the length of each test run. A group can then compare the fuel injected at several speeds, measure oil flow and check the condition of the pump and injectors.

## VE pump injection bench specifications

| Parameter | Detail |
|---|---|
| Injection pump | VE pump (distributor-type rotary pump) |
| Drive | Single-phase ½ HP motor |
| Speed control | Provided, so the pump can be run at different speeds |
| Timing | Timer for timed test runs |
| Function | Pump driven by the motor; fuel injection measured according to RPM |
| Training contents | Pump condition check, drive motor operation, oil flow measurement, injection against RPM, injector condition, study of VE pump injection |
| Weight | Approx. 100 kg |
| Size | Approx. 600 × 400 × 1,200 mm |
| Product code | SLE/ATE/03 |
| Minimum order | 10 units |
| Dispatch | Usually within 7 to 10 working days |
| Manufacturer | ScienceLab (Jain Scientific Equipments Pvt Ltd), Ambala, India |

## Practicals on the VE pump bench

Injection curve. Run the motor at a chosen speed, start the timer and catch the injected fuel in a polypropylene measuring cylinder. Repeat over several speeds with the same run time and plot quantity against RPM. Then explain the shape of the curve from how the control collar and governor of a VE pump meter the fuel.

Oil flow and injector condition. Measure the oil flow over a timed run and record it with the speed. Then check each injector for spray shape, a clean cut-off at the end of injection and any dribble or leakage at the nozzle, and write the pump and injector results on one sheet.

Distributor pump against inline pump. Run the same speed steps on the inline pump bench. Students compare one distributor plunger serving every outlet in turn with a sepa

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