

## PISTON PUMP

**VDAS**® H85B

Piston Pump for use with the multi-pump test set (H85V)



### KEY FEATURES

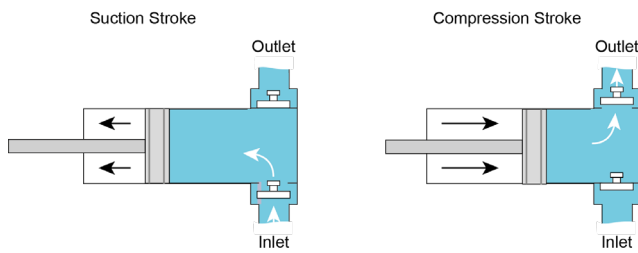
- Positive displacement pump
- One of a set of optional pumps for use with TecQuipment's H85V Multi-pump Test Set
- Mounted on a base plate that slots into the base unit
- Simple and safe to use, its foolproof fittings allow students to change and connect the pump quickly and easily without tools
- Corrosion-resistant materials for use with clean de-ionised water at safe temperatures

# PISTON PUMP

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## DESCRIPTION

A reciprocating piston inside a cylinder sucks a fluid into the chamber in one stroke and discharges it in the other. Inlet and discharge valves open and close with the varying pressure changes inside the cylinder. As the piston lifts, a negative pressure is created, opening the inlet valve, drawing fluid in and closing the discharge valve. When the piston drops the discharge valve opens, the inlet valve closes and the fluid is pushed out of the now open discharge valve.



## STANDARD FEATURES

- Five-year warranty
- Made in accordance with the latest European Union directives
- ISO9001 certified manufacturer

## ESSENTIAL BASE UNIT

- Multi Pump Test Set (H85V)



THE BASE UNIT (H85V) SHOWN WITHOUT A PUMP FITTED

## LEARNING OUTCOMES

- Understanding pump performance
- Creating characteristic curves from experimental data
- Investigating, analysing and comparing the characteristics of different pump types (if more than one pump is purchased)

## DETAILED SPECIFICATIONS

TecEquipment is committed to a programme of continuous improvement; hence we reserve the right to alter the design and product specification without prior notice.

### NETT DIMENSIONS:

240 mm (length), 350 mm (height), 460 mm (width)  
11 kg (weight)

## OPERATING CONDITIONS

### OPERATING ENVIRONMENT:

Laboratory

### STORAGE TEMPERATURE RANGE:

-25°C to +55°C (when packed for transport)

### OPERATING TEMPERATURE RANGE:

+5°C to +40°C

### OPERATING RELATIVE HUMIDITY RANGE:

80% at temperatures < 31°C decreasing linearly to 50% at 40°C

## PUMP TECHNICAL DETAILS

CC / Rev: 12.9

Nominal Maximum RPM: 1040

Rotation Direction: Clockwise

Nominal Maximum Pressure (bar): 5