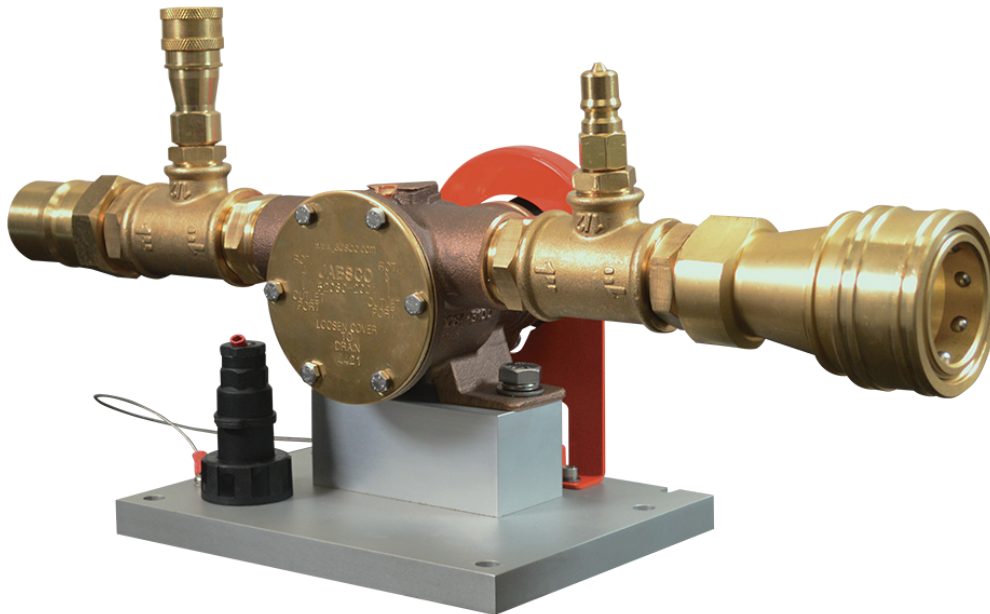


≡ FLEXIBLE VANE PUMP

VDAS® H85E

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



KEY FEATURES

- Rotodynamic pump
- One of a set of optional pumps for use with TecEquipment'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

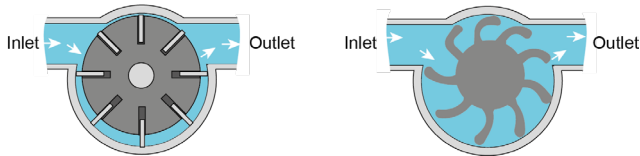
≡ FLEXIBLE VANE PUMP

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DESCRIPTION

Vane pumps fall into two categories, flexible vane pumps and sliding vane pumps. Flexible Vane pumps have an impeller rotating off-centre in a housing. As the flexible vanes on the impeller rotate they are compressed against one side of the housing. Some of the fluid is returned to the inlet side and this will increase with rising discharge pressure.

Sliding vanes, which can be spring loaded or simply allow the centrifugal forces to push them outwards against the casing, move in and out as the housing casing expands and contracts creating a crescent fluid path. The vanes also seal the return path to give a consistent flow rate independent of delivery pressure. This type is nearly solely restricted to self-lubricating fluid and works best with thin fluids. Both types only work with non-abrasive fluids.



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:

380 mm (length), 400 mm (height), 200 mm (width)
8 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: 54.66

Nominal Maximum RPM: 1500

Rotation Direction: Counter-Clockwise

Nominal Maximum Pressure (bar): 2.6