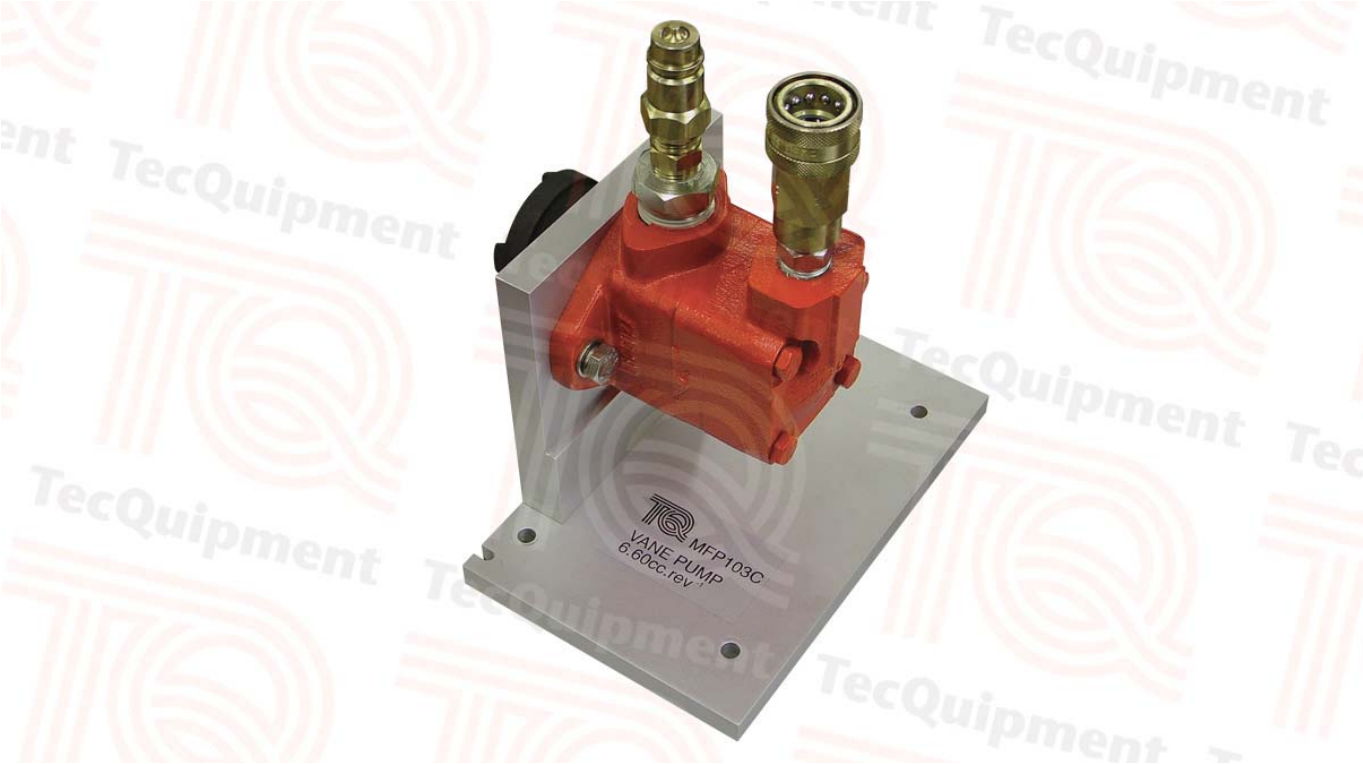
MFP103c

Vane Pump

Vane pump for use with the Positive Displacement Pump Support Module (MFP103)



- Popular design pump for use with TecQuipment's Positive Displacement Pump Support Module (MFP103)
- Quick-release, self-sealing connections for simple and safe fitting
- Shows the characteristics of a vane pump

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Vane Pump

Description

For use with the Positive Displacement Pump Module (MFP103) this pump is ideal for student experiments, demonstrations and projects.

The vane pump is a positive displacement pump. It has a fixed displacement balanced vane that delivers a given volume of fluid (oil) for each full rotation of the pump shaft.

The pump rotation determines the flow direction, but you only test the pump in one direction, determined by the Universal Dynamometer.

Self-sealing connections reduce oil spillage and simplify installing the pump to the pump module.

Standard Features

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

Experiments

- Performance and characteristics of a vane pump
- Volumetric and overall efficiencies
- Use of an oval gear flowmeter

When two or more optional pumps are ordered:

- Comparison of positive displacement pumps (economy, flow rate and output pressure pulses)

Essential Base Unit

- Positive Displacement Pump Module (MFP103) (with Universal Dynamometer MFP100)

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

Specification

Nett dimensions:
Approximately 300 mm x 300 mm x 300 mm and 9 kg

Packed dimensions:
Approximately 0.064 m^3

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