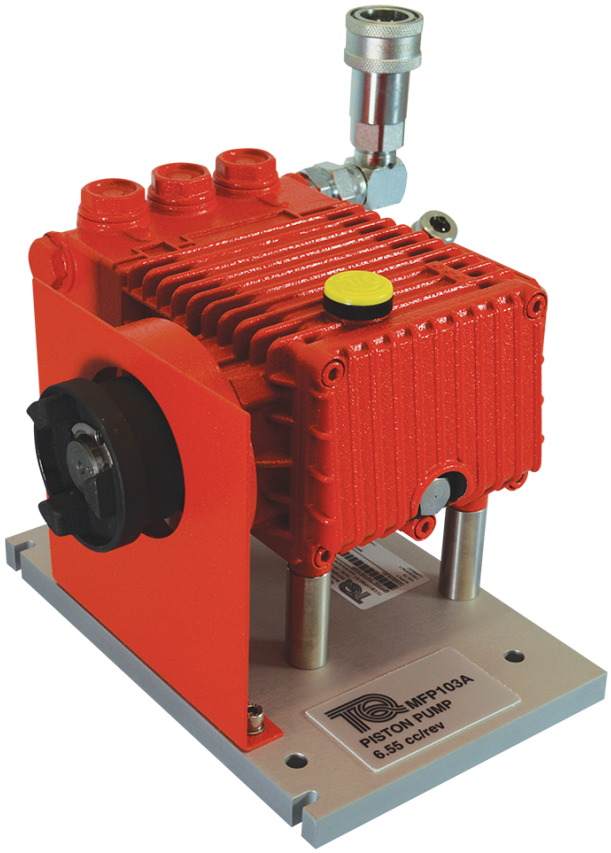
PISTON PUMP

VDAS® MFP103A

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



KEY FEATURES

- Popular design, ideal for student experiments, demonstrations and projects
- Quick-release, self-sealing connections for simple and safe fitting
- Demonstrates the characteristics of a piston pump

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PISTON PUMP

VDAS® MFP103A

DESCRIPTION

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

The piston pump is a positive displacement pump. It has twin vertically opposed pistons that deliver a given volume of fluid (oil) for each full rotation of the pump shaft.

Built-in one-way valves determine 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
- ISO9001 certified manufacturer

LEARNING OUTCOMES

- Performance and characteristics of a piston 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

SPECIFICATIONS

TecQuipment 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:

Approximately 300 mm x 300 mm x 300 mm and 7.5 kg

PACKED DIMENSIONS:

Approximately 0.064 m^3

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