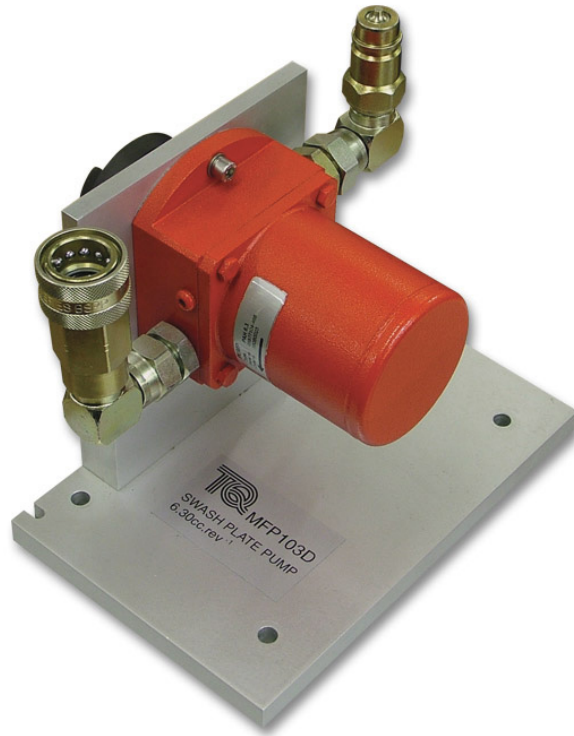


## ≡ SWASH PLATE PUMP

**V**DAS® MFP103D

Swash Plate 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 swash plate pump

# ≡ SWASH PLATE PUMP

**V**DAS® MFP103D

## DESCRIPTION

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

The Swash Plate Pump is a positive displacement pump. It has a fixed displacement axial piston assembly that delivers a given volume of fluid (oil) for each full rotation of the pump shaft.

The pump shaft rotation determines 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 swash plate 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 12 kg

### PACKED DIMENSIONS:

Approximately 0.064 m<sup>3</sup>