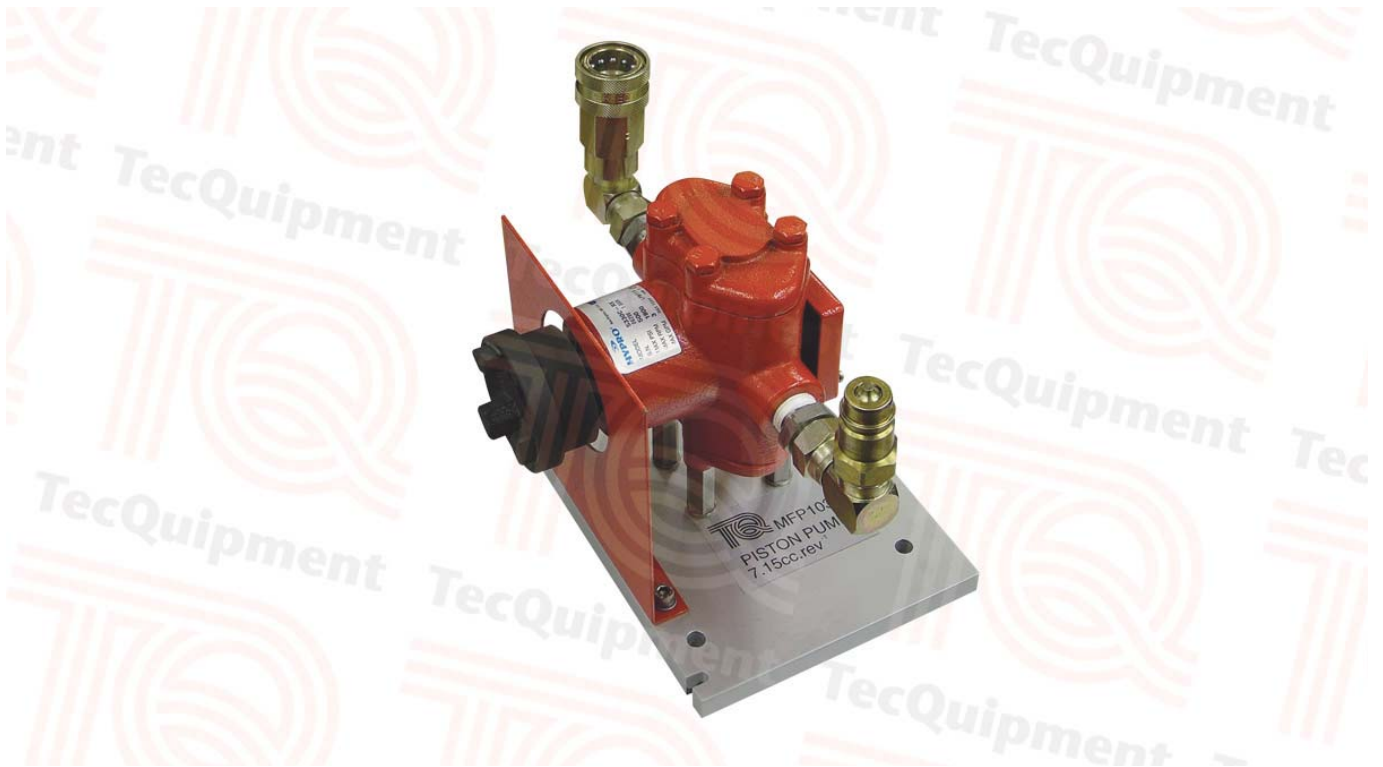




## MFP103a

## Piston Pump

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



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

- TecEquipment Ltd, Bonsall Street, Long Eaton, Nottingham NG10 2AN, UK
- **T** +44 115 972 2611 • **F** +44 115 973 1520 • **E** info@tecquipment.com • **W** www.tecquipment.com
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# MFP103a

# Piston Pump

## 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

## Experiments

- 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

## Specification

*Nett dimensions:*  
Approximately 300 mm x 300 mm x 300 mm and 7.5 kg

*Packed dimensions:*  
Approximately 0.064 m<sup>3</sup>

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**infoWERK Medien & Technik GmbH**

**Martinsbühel 6 / A-6170 Zirl / Austria**

Phone: +43 (0) 5238 52099-0 / Fax: +43 (0) 5238 52099-40

E-Mail: [info@infowerk.at](mailto:info@infowerk.at) / Website: [infowerk.at](http://infowerk.at)

**Otto-Dürr-Straße 25**

**D-70435 Stuttgart, Zuffenhausen/ Germany**

Phone: +49 (0) 711 342471-0 / Fax: +49 (0) 711 342471-11

E-Mail: [info@de.infowerk.at](mailto:info@de.infowerk.at) / Website: [infowerk.at](http://infowerk.at)