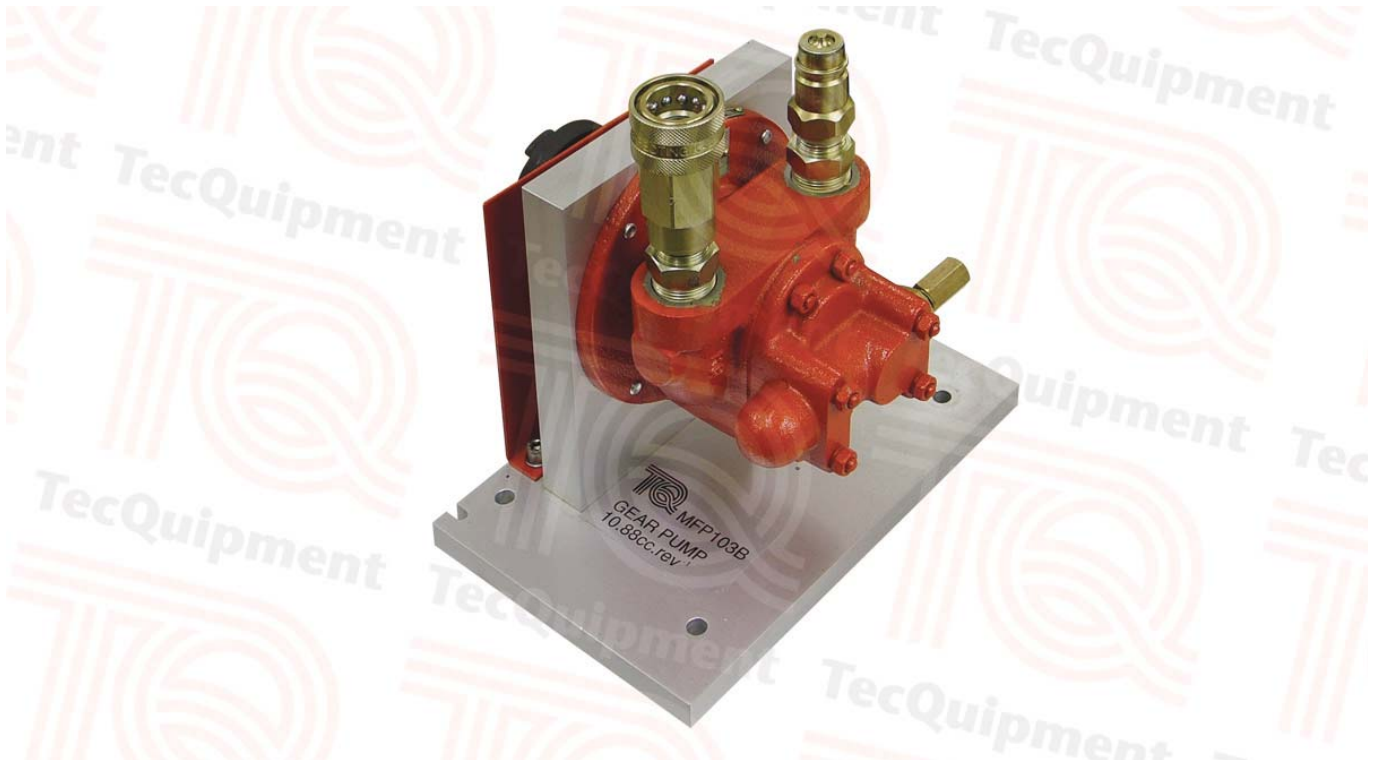


Fluid Mechanics

MFP103b

Gear Pump

Gear 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 double helical gear 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
- An ISO 9001 certified company

MFP103b

Gear Pump

Description

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

The gear pump is a positive displacement pump. It has double helical gears that deliver a given volume of fluid (oil) for each full rotation of the pump shaft.

The gear rotation generally determines the flow direction, but you only test the pump in one direction, determined by the Universal Dynamometer. A built-in pressure bypass valve helps to reduce over pressuring the pump.

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 gear 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 11 kg

Packed dimensions:
Approximately 0.064 m³

tradition.

innovation.

integration.

infoWERK is a leading expert in the development of eLearning courseware, learning system solutions, teaching and AV equipment.

Furthermore infoWERK is the representative and system integrator of "TecQuipment".

TecQuipment is one of the global leaders in technical teaching equipment for engineering. If you are interested in one of TecQuipment's products feel free to contact us at:



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 / Website: 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 / Website: infowerk.at