

CERTIFICATE OF ACCREDITATION



Arthur D Riley & Co Ltd.
Meter Services

Client Number 7343

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Authorised Representative

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Programme

Metrology & Calibration Laboratory

Accreditation Number 973

Initial Accreditation Date 1 June 2006

Conformance Standard


ISO/IEC 17025:2017
General requirements for the competence of testing and calibration laboratories

Laboratory Services Summary

5.31 Volumetric Equipment

Key Technical Personnel

Mr Carl Brebner	5.31
Mr Dominic McCabe	5.31

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Calibration and Measurement Capability (CMC) Uncertainties are expressed as an expanded uncertainty corresponding to a level of confidence of 95 % ^{Note1}.

Measurement results are traceable to the International System of Units (SI) via an unbroken chain of comparisons to the New Zealand National Standards or to the National Standards of other Signatories to the CIPM MRA.

Unless stated elsewhere in this schedule, calibrations are performed at the premises of the accredited laboratory.

Measurand/Range	CMC Uncertainty
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5.31 Volumetric Equipment

(b) Examination of other types of volumetric apparatus

Calibration of water meters in the flow range of nominally 0.25 L/min to 5300 L/min:
Classes A, B and C (ISO 4064:1993)
Class 2 (ISO 4064/OIML R49)
Mag-flow meters and ultrasonic meters without an assigned class

Determination of accuracy requirements of all of the above are in accordance with in-house procedures based on the following standards and the NZWWA Code of Practice:

ISO 4064-2:2024	Water meters for cold potable water and hot water – Part 2: Test methods
OIML R 49-2:2024	Water meters for cold potable water and hot water Part 2: Test methods

And previous versions of the above standards:

ISO 4064-2:2014	Water meters for cold potable water and hot water – Part 2: Test methods
ISO 4064-3:2005	Measurement of water flow in fully charged closed conduits – Meters for cold potable water and hot water – Part 3: Test methods and equipment
ISO 4064-3:1999	Measurement of water flow in closed conduits – Meters for cold potable water Part 3: Test methods and equipment
ISO 4064-3:1983	Measurement of water flow in closed conduits – Meters for cold potable water Part 3: Test methods and equipment
OIML R 49-2:2004	Water meters intended for the metering of cold potable water Part 2: Test Methods
OIML R 49-2:2013	Water meters for cold potable water and hot water Part 2: Test methods

Reference meter against a weigh tank	0.03 % to 0.06 % (depending on flow and tank used)
Field meter against reference meter	0.07 % to 0.36 % (depending on flow and meter type)

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Note 1:

Unless stated otherwise the CMC is based on the performance of the best available device and measurement uncertainties achieved for specific calibrations may be greater than the CMC Uncertainty. A laboratory may not report measurement uncertainties lower than its CMC. However, if the device under calibration has a greater accuracy than the device used to calculate the CMC the laboratory may be able to use the calibration data to lower its CMC Uncertainty. Please contact the laboratory to discuss your specific requirements.

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