

# Testing and calibrating New Zealand's water meters to international standards

Meter Services is a New Zealand owned company specialising in water meters. Since its inception in 1994, Meter Services has provided high quality products and service to the New Zealand water industry including:

- Calibration and testing of water meters
- Reconditioning and repairing
- Meter hireage
- Meter asset management
- Meter reporting
- Supply of new domestic, industrial and bulk flow meters



## New accredited testing laboratory

To compliment the range of quality services they already offer, Meter Services has opened a high specification water meter test laboratory.

The Meter Services laboratory is the only water meter testing facility in New Zealand (as at November 2020) that is IANZ accredited to ISO 17025 - for testing meters from 0.25 lpm to 5700 lpm. With the smallest weigh tank (100 ltr), scaled to 0.01kg, they are able to test meters with immense accuracy.

The Meter Services test facility has the capability to test a wide range of water meters, including: positive displacement, woltman, multi-jet, electromagnetic ultrasonic, vortex or any meter that has a volume totaliser.



## International Accreditation New Zealand

Accreditation by International Accreditation New Zealand (IANZ) is the international process for assessing and recognising the technical competence and the effective quality processes of a professional service and its staff. You can be assured that laboratories, radiology services and inspection bodies displaying the IANZ Accreditation mark follow the best international technical and management system standards.

For more information about IANZ visit [www.ianz.govt.nz](http://www.ianz.govt.nz)

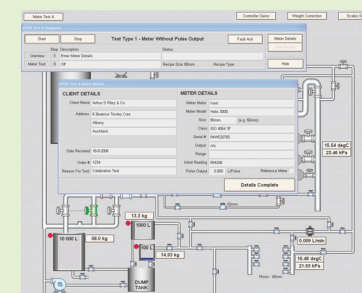
## Water Meter Code of Practice

Prior to the Water and Wastes Association Water Meter Code of Practice being introduced in New Zealand there had been no formal regulation for the supply or use of water meters, or for accurate testing of water meters. The Code ensures that installed water meters will meet international standards, will not be installed unless they have been tested to the required standard, and that water suppliers have a meter replacement or refurbishment programme. Approved water meter test facilities around the world are required to be accredited to ISO17025 – the international standard for test laboratories.

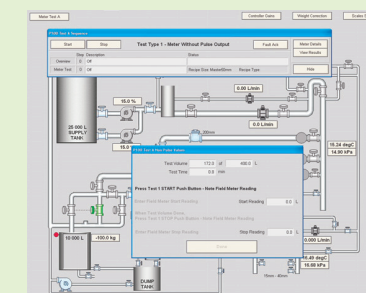
Meter Services has the only facility in the country able to test meters from 15mm in diameter for domestic use, right up to 200mm for heavy industrial use. With nine separate test lines, they can accommodate almost almost any type of fitting, including:

- 15mm-50mm BSP thread,
- 40mm-200mm BS10 table D or E flange,
- Hydrant standpipe
- 64mm instantaneous coupling,
- 40mm-150mm camlock,
- 40mm-200mm wafer, and many more.

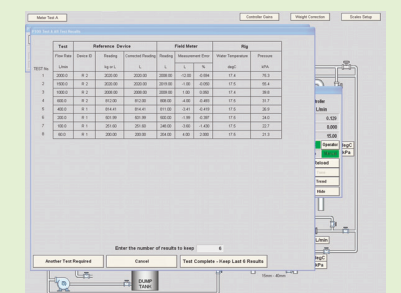
As part of the testing facility, Meter Services has developed a sophisticated computer software package, with the latest on screen graphics, that enables them to produce certificates with total confidence of accuracy. The meter testing process is monitored and recorded in this system. This allows all tests results to be traceable in accordance with the international standards.



Customer and meter details are entered



Starting the test



Results page



## Water loss means money down the drain

Water loss through a meter varies for each meter size and the quantity of water passed through the meter. The examples below provide an idea of the amount of money being thrown down the drain as a result of water meters not being regularly tested and maintained.

Meter size (mm)	Meter commonly used for	Average daily use (litres)	Litres lost per day at -10% accuracy	\$ value lost per month @ \$2.00/m <sup>3</sup>	\$ value lost per year @ \$2.00/m <sup>3</sup>
15/20	Domestic	250	25	\$1.52	\$18.25
25	Light commercial	500	50	\$3.04	\$36.50
40	Comercial	7,500	750	\$456.25	\$5,475.00
100	light industrial	1,000,000	100,000	\$6,083.00	\$73,000.00
150	Industrial	2,500,000	250,000	\$15,200.00	\$182,500.00

These figures are approximate only. Calculating the loss to a dollar value will depend on individual council charges.

If you want to stop throwing money down the drain, ensure your water meters are accurately tested to international standards by Meter Services – The only commercial facility accredited by IANZ for testing water meters up to 150mm in New Zealand.

For more information or for a quotation, contact Meter Services today.

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## How accurate are your meters?



fieldsmart technology



METER services



IANZ Accredited to ISO17025  
International standards

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