

**State of California**  
Department of Food and Agriculture  
Division of Measurement Standards

Certificate Number: 5696-12

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***California Type Evaluation Program***  
***Certificate of Approval***  
***for Weighing and Measuring Devices***

**For:**

Hot and Cold Water Meter  
Multi-Jet Domestic Style  
Model: VersaMag  
Sizes: 5/8" x 3/4"

**Submitted by:**

Norgas Metering Technologies, Inc., d/b/a NMT  
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Fairfield, Ohio 45014  
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**Standard Features and Options**

**Standard Features**

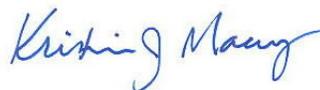
- Sealed eight wheel odometer type register with one decimal place
- US Gallon unit of measure
- Polymer main case and register
- Magnetic drive register
- External threaded spuds 7.5" length
- Cast flow direction arrow on discharge end of meter case
- Cold water meter with blue register ring indicating up to 105 °F maximum

**Options**

- Remote pulsing Reed Switch counter (functions not evaluated)
- Hot water meter with red register ring indicating up to 160 °F maximum

**Note:** Approved for use only when installed according to the manufacturer's instructions in a "**HORIZONTAL**" position with the register facing up.

This device was evaluated under the California Type Evaluation Program (CTEP) and was found to comply with the applicable technical requirements of California Code of Regulations for "Weighing and Measuring Devices." Evaluation results and device characteristics necessary for inspection and use in commerce are on the following pages.



Effective Date: October 22, 2012

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Kristin J. Macey, Director

**NMT**  
**Hot and Cold Water Meter / Model: VersaMag**

**Application:** Approved for use as a domestic cold water meter (105 °F maximum-Blue Ring) hot water meter (160 °F maximum-Red Ring) in legal sub-metering installations. The flow direction indications are cast into the body of the meter.

**Identification:** The NMT logo, NSF-61-G, gallon unit of measure, pulse and flow specifications, serial number, and the model VersaMag are printed on the register face. The CTEP CA number will be located on the side of the device by a label showing 'NMT logo'. **NOTE: This label MUST be on the meter and is specific to California only.**

**Sealing:** The meter can be sealed with a wire security seal threaded through a hole in the red or blue register ring and through a hole in the external threaded spud (this also sealing the measuring chamber). The factory seal uses the same sealing provisions and should be left in place for warranty purposes.

**Operation:** This is a velocity type meter where in-flowing water, distributed by multiple jets, flows past an impeller in the measuring chamber, creating an impeller velocity directly proportional to water velocity. The meter's register interprets the velocity into total flow indicated in a volumetric gallon unit of measure.

**Test Conditions:** Three VersaMag meters were initially submitted for evaluation. The meters were mounted in line of each other on a gravimetric water meter test bench in a lab at the manufacture's facility. The meters were subjected to three tests each at the maximum, intermediate, and minimum flow rates. After successful initial testing, throughput in excess of 205 000 gallons of hot water flowed through the meters. The emphasis of the evaluation was on the device design, marking requirements, accuracy, and repeatability of the meter and the tested temperature range of 45 °F to 154 °F maximum. All tests were then repeated.

Results of the evaluation indicate the devices comply with applicable requirements.

**Type Evaluation Criteria Used:** Title 4, California Code of Regulations, 2012 Edition

**Tested By:** J. Roach (CA)

