



NATIONAL TYPE EVALUATION PROGRAM

*Certificate of Conformance*  
*for Weighing and Measuring Devices*

**For:**

Meter Indicating Volume  
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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**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
- Water Meter with Blue Register Ring Indicates up to 105 °F Maximum
- 150 PSI Maximum Operating Pressure


**Options**

- Remote Pulsing Reed Switch Counter (functions not evaluated)
- Water Meter with Red Register Ring Indicates 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 National Type Evaluation Program and was found to comply with the applicable technical requirements of "NIST Handbook 44: Specifications, Tolerances and Other Technical Requirements for Weighing and Measuring Devices." Evaluation results and device characteristics necessary for inspection and use in commerce are on the following pages.

  
Stephen Benjamin  
Chairman, NCWM, Inc.

  
Kurt Floren  
Committee Chair, National Type Evaluation Program Committee  
Issued: October 29, 2012

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**Norgas Metering Technologies, Inc., d/b/a NMT**  
Water Meter / VersaMag

**Application:** Approved for use as a domestic water meter (105 °F maximum-Blue Ring) or (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 & flow specs, serial number, and the model VERSAMAG are printed on the register face. The NTEP CC number is permanently marked on the side of the meter.

**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 on a gravimetric water meter test bench in a lab at the manufacturer'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.

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

**Type Evaluation Criteria Used:** NIST Handbook 44 Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices, 2012 Edition. NCWM Publication 14 Measuring Devices, 2012 Edition.

**Conclusion:** The results of the evaluation and information provided by the manufacturer indicate the device complies with applicable requirements.

**Information Reviewed By:** J. Truex (NCWM)

**Example(s) of Device:**

