



NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance
for Weighing and Measuring Devices

For:

Meter Indicating Volume
Water Meter / Single-Jet Domestic Style
Model: SingleMag
Sizes: 5/8" x 3/4"

Submitted By:

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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 with a Lid
- Magnetic Drive Register
- External Threaded Spuds 5" Length (Testing Requires an External Inlet Spud to Increase Length to approximately 7.5")
- Cast Flow Direction Arrow on the Main Body of the 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.

Note: Save the external inlet testing spuds for future testing.

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

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Norgas Metering Technologies, Inc. (dba NMT)
Meter Indicating Volume / SingleMag

Application: Approved for use as a domestic water meter (105 °F max-Blue Ring) or (160 °F max-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 SingleMag 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 inlet or outlet. 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 a single jet, 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 SingleMag meters were submitted for evaluation. The meters were mounted in line on a gravimetric water meter test bench in a lab at the manufactures facility. The meters were subjected to three tests each at the maximum, intermediate, and minimum flow rates. After successful initial testing, an 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 152 °F maximum. All tests were then repeated.

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

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:

