

California Type Evaluation Program
Certificate of Approval
Weighing and Measuring Devices

For:

Water Meter
Multi-Jet
Model: SPWM-075-CF and SPWM-100-CF
Size: 3/4" and 1"

Maximum Flow Rate:

3/4" 25 gpm
1" 40 gpm

Submitted By:

EKM Metering, Inc.
122 Benito Avenue
Santa Cruz, CA 95062
Tel: 831-425-7371
Contact: Doug Brouwer
Email: info@ekmmetering.com
Web site: www.ekmmetering.com

Standard Features and Options

- Sealed Five-Wheel Odometer with Four Proving Hands Type Register
- Unit of Measure: Cubic Feet
- Maximum Operating Pressure: 150 psi
- Stainless Steel Main Case and Stainless Steel Register
- Magnetic Drive Register
- External Male Threaded Spuds 7.5" Length for the 3/4" meter and 8.75" Length for the 1" Meter

Options:

- Pulse Output Wires (Functions not Evaluated)

This device was evaluated under the California Type Evaluation Program (CTEP) and was found to comply with the applicable 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.



Kristin J. Macey, Director
Effective Date: March 3, 2016

State of California, Department of Food and Agriculture, Division of Measurement Standards
6790 Florin Perkins Road, Suite 100 / Sacramento, CA 95828

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EKM Metering, Inc.

Water Meter, Multi-Jet / SPWM-075-CF and SPWM-100-CF

Application: Approved for use as a domestic water meter in legal sub-metering installations.

Identification: The manufacturer's name, unit of measure, model number, and meter size are printed on the register face. The flow direction indications and meter size in millimeters are permanently marked into the body of the meter. The serial number (S/N) is printed on the register rim.

Sealing: The meter is sealed with a wire security seal threaded through a hole in the register and the meter body inlet. Prior to testing, the pulse output wires will need to be disconnected by a registered service agent in order to read all the proving hands.

Operation: This is a multi-jet type water meter utilizing a multi-jet measuring element and a magnetically driven sealed register. The multi-jet measuring element converts flow velocity into a volumetric registration in cubic feet. Plumbing fittings may be required from the registered service agent for testing to adapt to county water meter test benches.

Test Conditions: Two 3/4" and two 1" multi-jet meters were submitted for evaluation. The meters were mounted in line on a volumetric water meter test bench at the Division of Measurement Standards laboratory. The meters were subjected to three tests each at the maximum, intermediate, and minimum flow rates for the 3/4" and 1" meter sizes. After successful initial testing, throughput in excess of 200 000 gallons of water flowed through the meters before permanence tests were conducted. The emphasis of the evaluation was on the device design, marking requirements, accuracy, and repeatability of the meter.

Evaluated By: J. Roach

Type Evaluation Criteria Used: *California Code of Regulations, Title 4, Division 9, Article 1. National Uniformity, Exceptions and Additions 2016 Edition*

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

Example(s) of Device:



Model SPWM-100 CF 1" Meter Pictured with Correct Markings and Sealing Provisions

EKM Metering, Inc.
Water Meter, Multi-Jet / SPWM-075-CF and SPWM-100-CF



Model SPWM-075-CF Showing Sealing Provisions, Pulse Output Wire Connection and Side View



Model SPWM-100-CF Showing Sealing Provisions, Pulse Output Wire Connection and Side View