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

Certificate Number: 5519-07

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

For:

Water Meter
Positive Displacement
Model: C-700 Series
Size: See Table Below
Maximum Flow Rate: See Table Below
Minimum Flow Rate: See Table Below

Submitted by:

Elster AMCO Water, Inc.
(Trademark Elster Metering Limited)
1100 S.W. 38th Avenue
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Contact: Matt White

Standard Features and Options

Unit of measure: Gallons or cubic feet
Magnetic drive
Electronic pulse output (not evaluated)*
Bronze main case
External threaded spuds

Meter Description:

Model	Description	Flow Rate (gpm)
C-700	5/8" x 1/2" Bronze and Polymer Case	1/4 - 25
	5/8" x 3/4" Bronze and Polymer Case	1/4 - 25
	3/4" x 3/4" Bronze and Polymer Case	1/2 - 30
	1" Bronze Case	3/4 - 50

* **Register Model:** Inside R, Digital, Scancoder, Invision, B Pulser, RS Pulser

NOTE: Approved for use when installed in ***"ANY ORIENTATION"*** according to the manufacturer's instructions only.

These devices are to be installed where they are protected from excessive heat and freezing conditions.

These devices were evaluated under the California Type Evaluation Program (CTEP) and were 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.

Effective Date: April 17, 2007

Dennis R. Johannes, Director

Elster AMCO Water, Inc.
(Trademark Elster Metering Limited)
Water Meter, Positive Displacement
Model: C-700 Series

Application: Approved for use as a domestic cold-water meter and may be installed in ***"ANY ORIENTATION"***. The flow direction indications are cast into the single pipe connector, main case.

NOTE: Written installation instructions shall be included with each meter. Additionally, field installations should be verified according to the manufacturer's installation requirements.

Identification: The manufacturer's name and model designation are silk-screened on the register indicating face on both meter types. The serial number prefaced with "s/n" is engraved on the outlet of the meter body on both meters. The model number on the bronze meter is prefaced with "MODEL" or "Mod" stamped on the inlet of the meter body. The model number on the polymer meter is prefaced with "Model" or "Mod" raised molded lettering on the side meter body.

Sealing: On both meter types, the water meter can be sealed with a security seal threaded tightly through the hinge pin hole in a polymer clamp on the measuring chamber. Another bronze meter style of register has a tamper evident plug and can be sealed with a security seal threaded tightly through the hinge lid pin hole and around the threaded pipe through a drilled bottom bolt. Additionally, on the bronze meter only, the bottom frost protection plate can be sealed with a wire security seal threaded through a hole in the bottom bolts.

Operation: The Model C-700 is a revolving piston style, positive displacement water meter. The water meter utilizes a revolving piston which is rotated by the water in a measuring chamber. Each disk revolution is the equivalent of a known volume of water. The disk movement is transferred by a magnetic drive to a straight reading sealed register.

Test Conditions: The emphasis of the approval was on a trademark name change to Elster Metering Limited. Testing of this new meter's trademark name was conducted under Certificate of Approval Number 5100(c)-07. The original test conditions are listed below for reference.

Certificate of Approval Number 5100(c)-07: This certificate was issued to allow "ANY ORIENTATION" according to the manufacturer's installation requirements. Two Model C-700 58" x 3/4", two 3/4" and two 1" meters with cubic feet and gallon registers were submitted for evaluation and tested in different orientations including upside down and combinations of vertical and horizontal. The emphasis of the examination was on device performance using basement resetters to place the meters in any desired position for testing and a manufacturer's company name change. Three tests each at minimum, intermediate, and normal flow rates and repeatability were conducted.

Type Evaluation Criteria Used: Title 4, California Code of Regulations, 2007 Edition

Tested By: J. Roach 5100(c)-07

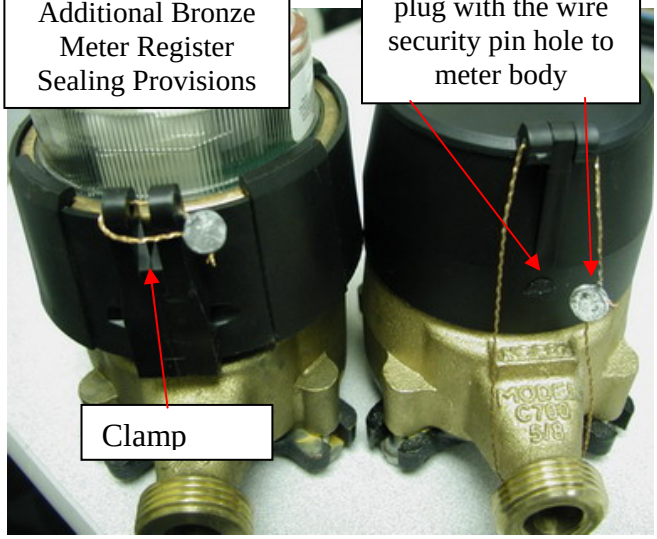
Elster AMCO Water, Inc.
(Trademark Elster Metering Limited)
Water Meter, Positive Displacement
Model: C-700 Series

Frost Proof Bronze Meter Bottom Plate Sealing Provisions

Polymer Meter only needs register Sealing Provisions clamp style

Additional Bronze Meter Register Sealing Provisions

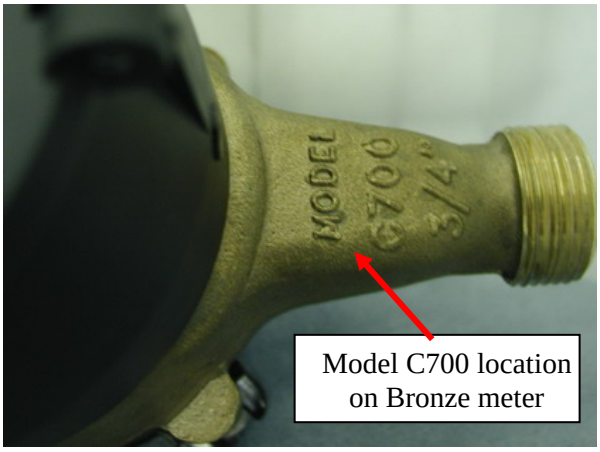
Tamper evident plug with the wire security pin hole to meter body



Clamp

Elster Bronze meter

Serial Number (s/n) on the Bronze meter



Model C700 location on Bronze meter