

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

Certificate Number: 3211(d)-09
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California Type Evaluation Program
Certificate of Approval
for Weighing and Measuring Devices

For:

Emco Wheaton, Retail
Vapor Recovery Nozzle (Balance)
Models: A4005 (Coaxial), RA4005 (Coaxial)
A4005EVR (Coaxial), RA4005EVR (Coaxial)
A4015 (Coaxial, Short Spout)
RA4015 (Coaxial, Short Spout)

Submitted by:

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Standard Features and Options

- RA in the model number indicates factory rebuilt Emco Wheaton nozzles.
- Vapor check valve is located in the nozzle body of the EVR Models (Enhanced Vapor Recovery).
- Vapor check valve is located on the nozzle spout of the Non EVR Models (Enhanced Vapor Recovery).
- Nozzles are intended tight seal type.
- Nozzles have a no-seal/no-flow interlock in the front end assembly (spout end).
- Nozzles are equipped with a shut-off and a secondary shut-off device.

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.

Effective Date: February 13, 2009



Edmund E. Williams, Director

Emco Wheaton, Retail Corp.
Balanced Vapor Recovery Nozzle
Models: A4005, RA4005, A4005EVR, RA4005EVR, A4015, RA4015

Application: Retail motor fuel service station. Approved for gasoline and blends of gasoline/ethanol and methanol/gasoline up to and including M-100.

Identification: The identification badge is riveted on the side portion of the nozzle body. The identification badge may also be riveted to the inside of the lever guard on some models.

Sealing: No sealing is required.

Test Conditions: This approval supersedes Certificate of Approval 3211(c)-93 and is issued to add a Phase II vapor recovery nozzle Model Number A4005EVR. Six Emco Wheaton Model A4005EVR nozzles were submitted for field evaluation at a service station. The emphasis of the evaluation was on the relocation of the Vapor Check Valve on the new EVR model. Compliance of the primary shut-off device, secondary shut-off device, and delivery accuracy vehicle tests were conducted at the field test site.

Certificate of Approval Number 3211(c)-93: Number 3211(b)-92 and is issued to add factory rebuilt nozzle RA4015. This approval is issued based upon information supplied by the manufacturer. The original test conditions are repeated below.

Certificate of Approval Number 3211(b)-92: In July 1992, nozzle Models A4005, RA4005, and A4015 were approved for methanol service. Granting this addition to the approval is based upon information supplied by the manufacturer.

Certificate of Approval Number 3211(a)-92: In November 1991, six Model A4015 nozzles were evaluated at a field test site. Tests included the evaluation of the primary and secondary shut-off mechanisms.

Certificate of Approval Number 3211-89: In July 1989, the operation of six Model A4005 nozzles were tested at a high volume test site. Tests included the operation of the primary and secondary shut-off mechanisms. Additionally, a 300 vehicle fueling evaluation was conducted.

The results of these evaluations indicate these devices comply with applicable requirements.

Type Evaluation Criteria Used: Title 4, California Code of Regulations, 2008 Edition

Tested By: Tom Michel (CA) 1989, 1991, 1992, 1993; Sally Barron (CA) 1991, 1992, 1993; John Roach (CA) 2009; Matt Stevens (CA) 2009

