

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

Certificate Number: 4432(b)-08  
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***California Type Evaluation Program***  
***Certificate of Approval***  
***for Weighing and Measuring Devices***

**For:**

Meter Indicating Volume  
Positive Displacement (P.D.) Meter  
Wholesale and Vehicle Tank  
Model: T Series  
Meter Sizes :( See Below)

**Submitted by:**

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**Standard Features and Options**

Meter Model	Meter Size	Minimum Flow Rate	Maximum Flow Rate
		US Gallons per Minute	US Gallons per Minute
T-7	1.5	14	70
T-11	2	5	100
T-20	3	19	200
T-40	4	37	400

- Category 1 physical seal (see sealing, Page 2)
- Preset volume
- Ticket printer
- Automatic temperature compensation
- Air Eliminator

This device was evaluated under the California Type Evaluation Program (CTEP) and was found to comply with the applicable technical 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 22, 2008



Edmund E. Williams, Acting Director

**FMC Technologies**  
**PD Meter**  
**Models: T Series**

**Application:** Wholesale and vehicle tank meters used to measure dispensed gasoline, diesel fuel and 30 Wt. oil. An acceptable range of products is listed below for reference. These meters may be interfaced with approved and compatible equipment.

Product Family	Typical Products <sup>1</sup>	Viscosity Centistokes
Fuels, Lubricants, Industrial, Fuel & Food Grade Liquid Oils	Gasoline <sup>3</sup> 0.5 Diesel <sup>2</sup> Bio-Diesel (B100) 30 Wt. Oil 350 centistokes @ 20 °C	0.5 – 350

<sup>1</sup> Note: The Typical Products listed in this table are not limiting or all-inclusive; there may be other products and product trade names, which fall into a product family.

<sup>2</sup> Diesel fuel blends (bio-diesel) with up to 99 % vegetable or animal fat/oil.

<sup>3</sup> Gasoline includes oxygenated fuel blends with up to 15 % oxygenate

**Identification:** The identification plate is riveted to the side of the meter housing.

**Sealing:** The meter calibration adjustment may be secured with a wire security seal.

**Test Conditions:** A Model T-11 meter was tested and installed in a stationary application using a Veeder-Root Model 78 register. The emphasis of the evaluation was to add the product SAE 30 Wt. oil and to extend the minimum flow rate of the T-11 model from 20 to 5 G.P.M. The meter was tested gravimetrically using 30 Wt. oil, certified test weights, glassware and two scales. The data was checked for accuracy and repeatability.

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

**Certificate of Approval number 4432(a)-96:** This certificate is issued to consolidate and supersede California Certificates of Approval numbers 1166-71, 1166(a)-72 and 1237-72.

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

**Tested By:** D. Guensler (CA) 1166(a)-72, Mike Saling (CA) 1237-72, John Roach (CA) 4432(b)-08

