

**Title 4. Business
Regulations
Division 9. Division of Measurement Standards, Department of Food and
Agriculture**

**Chapter 1. Tolerances and Specifications for Commercial Weighing and
Measuring Devices**

Article 1. National Uniformity, Exceptions and Additions

Newly proposed changes are indicated in ~~double strikethrough~~ for deletions and double underline for additions.

NOTE: § 4000 is displayed for context. No changes are being made to this section.

§ 4000. Application.

Commercial weighing and measuring devices shall, except where noted below, conform to the latest requirements set forth in the National Institute of Standards and Technology Handbook 44 "Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices", which is herein incorporated by reference, and to the Additional Requirements listed herein. Copies of Handbook 44 may be purchased from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.

Note: Authority cited: Sections 12027 and 12107, Business and Professions Code.
Reference: Section 12107, Business and Professions Code.

§ 4001. Exceptions.

The following regulations in Handbook 44 are not adopted or incorporated by reference:
1.10. General Code.

G-S.1.2. Remanufactured Devices and Remanufactured Main Elements.

G-T.1. Acceptance Tolerances.

(b) equipment that has been placed in commercial service within the preceding 30 days and is being officially tested for the first time;

(c) equipment that has been returned to commercial service following official rejection for failure to conform to performance requirements and is being officially tested for the first time within 30 days after corrective service;

(d) equipment that is being officially tested for the first time within 30 days after major reconditioning or overhaul;

2.20. Scales.

S.1.8.4. Customer's Indications.

N.3. Minimum Test Weights and Test Loads*.

UR.2.6.1 Vehicle Scales.

UR.3.7. Minimum Load on a Vehicle Scale.

3.30. Liquid-Measuring Devices.

N.4.1.1. Wholesale Devices Equipped With Automatic Temperature Compensating Systems.

3.31. Vehicle-Tank Meters.

UR.2.2. Ticket Printer; Customer Ticket.

3.32. Liquefied Petroleum Gas and Anhydrous Ammonia Liquid-Measuring Devices.

S.2.6. Automatic Temperature Compensation.

N.4.1.1. Automatic Temperature Compensation.

UR.2.3. Vapor Return Line.

3.33. Hydrocarbon Gas Vapor-Measuring Devices.

S.4.3. Temperature Compensation.

~~S.1.2. Compressed Natural Gas Dispensers.~~

Section 3.37. S.1.3.1.1. Compressed Natural Gas Used as an Engine Fuel.

Section 3.37. S.1.3.1.2. Liquefied Natural Gas Used as an Engine Fuel.

Section 3.37. S.5.2. Marking of Gasoline Volume Equivalent Conversion Factors for Compressed Natural Gas.

Section 3.37. S.5.3. Marking of Equivalent Conversion Factor for Liquefied Natural Gas.

Section 3.37. UR.3.1.1. Marking of Equivalent Conversion Factors for Compressed Natural Gas.

Section 3.37. U.R.3.1.2. Marking of Equivalent Conversion Factor for Liquefied Natural Gas.

~~UR 3.8. Return of Product to Storage, Retail Compressed Natural Gas Dispensers.~~

3.39. Hydrogen Gas-Measuring Devices.

Section 3.39. Hydrogen Gas-Measuring Devices - Tentative Code

A.2. Exceptions

(c). Devices used for dispensing a hydrogen gas with a hydrogen fuel index lower than 99.97 % and concentrations of specified impurities that exceed level limits.

A.4. Type Evaluation.

N.3. Test Drafts.

N.4.1. Master Meter (Transfer) Standard Test.

N.4.2. Gravimetric Tests.

N.4.3. PVT Pressure Volume Temperature Test.

N.6.1.1. Repeatability Tests.

T.2. Tolerances.

Table T.2.

T.3. Repeatability.

Appendix D. Definitions for:

~~Appendix D—Definitions: dDiesel gallon equivalent (DGE).~~

~~Appendix D—Definitions: gGasoline gallon equivalent (GGE).~~

Gasoline liter equivalent (GLE).

Remanufactured Device.

Repaired Device.

Remanufactured Element.

Repaired Element.

Note: Authority cited: Sections 12027 and 12107, Business and Professions Code.
Reference: Sections 12107, 13400 (b) (9), 13404 and 13470, Business and Professions Code.

NOTE: § 4002 is displayed for context. No changes are being made to this section. Changes are being made to § 4002.10.

4 CCR § 4002

§ 4002. Additional Requirements.

The following sections apply to devices in addition to the Handbook 44 requirements that are incorporated by reference. The number in parenthesis following the section number and section title refers to the related section in Handbook 44; i.e., 4002.1.

General Code (1.10.) refers to Section 1.10. General Code in Handbook 44.

Note: Authority cited: Sections 12027 and 12107, Business and Professions Code.

Reference: Section 12107, Business and Professions Code.

§ 4002.10. Mass Flow Meters. (3.37.)

~~S.1.2. Compressed Natural Gas and Liquefied Natural Gas Dispensers. — Except for fleet sales and other price contract sales, a compressed or liquefied natural gas dispenser used to refuel vehicles shall be of the computing type and shall indicate the quantity, the unit price, and the total price of each delivery. The dispenser shall display the mass measured for each transaction either continuously on an external or internal display accessible during the inspection and test of the dispenser, or display the quantity in mass units by using controls on the device.~~

Section 3.37. S.1.3.1.1. Compressed Natural Gas Used as an Engine Fuel. – When compressed natural gas is dispensed as an engine fuel, the delivered quantity shall be indicated in “gasoline gallon equivalent (GGE) units” (See Appendix D for definition.)

Section 3.37. S.1.3.1.2. Liquefied Natural Gas Used as an Engine Fuel. – When liquefied natural gas is dispensed as an engine fuel, the delivered quantity shall be indicated in diesel gallon equivalent units (DGE). (See Appendix D for definition.)

Section 3.37. S.5.2. Marking of ~~Gasoline Volume~~ Gasoline Volume Equivalent Conversion Factors for Compressed Natural Gas. – A device dispensing compressed natural gas shall have the statement “1 Gasoline Gallon Equivalent (GGE) is Equal to 5.66 lb of Compressed Natural Gas” permanently and conspicuously marked on the face of the dispenser.

Section 3.37. S.5.3. Marking of ~~Diesel Volume~~ Diesel Volume Equivalent Conversion Factors for Liquefied Natural Gas. – A device dispensing liquefied natural gas shall have the statement “1 Diesel Gallon Equivalent (DGE) means 6.06 lb of Liquefied Natural Gas” permanently and conspicuously marked on the face of the dispenser.

Section 3.37. UR.3.1.1. Marking of Equivalent Conversion Factor for Compressed Natural Gas. – A device dispensing compressed natural gas shall have the statement “1 Gasoline Gallon Equivalent (GGE) means 5.66 lb of Compressed Natural Gas” permanently and conspicuously marked on the face of the dispenser.

Section 3.37. U.R.3.1.2. Marking of Equivalent Conversion Factor for Liquefied Natural Gas. – A device dispensing liquefied natural gas shall have the statement “1 Diesel Gallon Equivalent (DGE) means 6.06 lb of Liquefied Natural Gas” permanently and conspicuously marked on the face of the dispenser.

~~UR.3.8. Return of Product to Storage, Retail Compressed and Liquefied Natural Gas Dispensers. – Provisions at the site shall be made for returning product to storage or disposing of the product in a safe and timely manner during or following testing operations. Such provisions may include return lines, or cylinders adequate in size and number to permit this procedure.~~

Appendix D – Definitions: diesel gallon equivalent (DGE). Diesel gallon equivalent (DGE) means 6.06 pounds of natural gas. [3.37.]

Appendix D – Definitions: gasoline gallon equivalent (GGE). Gasoline gallon equivalent (GGE) means 5.66 pounds of natural gas. [3.37.]

Note: Authority cited: Sections 12027 and 12107, Business and Professions Code. Reference: Sections 12107, 13400 (b) (9), and 13404 and 13470, Business and Professions Code.