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**INDUSTRY STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

JJG 997-2015

Replacing JJG 997-2005

**Verification Regulation of Liquefied Petroleum Gas Dispenser
(English Translation)**

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7.4 Verification cycle (11)

Appendix A Standard Mass Flowmeter Verification Method (12)

Appendix B Verification Certificate and Verification Result Incoming Page Format (13)

Appendix C Verification of the original record format (14)

Introduction

This procedure is in accordance with JJF1002-2010 "national measurement procedures for the preparation of rules" requirements, Learning, operability, economy, according to OIMLR117-1..2007 "non-aqueous liquid dynamic measurement system the first part of the measurement and technical requirements ", combined with China's liquefied petroleum gas filling machine technical level and industry status and is revised to be equivalent to international recommendations on key technical indicators. Compared with JJG 997-2005, in addition to editorial changes the main technical changes are as follows.

- the specific requirements have been added to the terminology and content;

The measurement repeatability of the filling machine indication shall be modified to not exceed 0.3% (see 5.1.1);

- The minimum measured repeatability of the aerator shall be modified to not exceed 0.6% (see 5.1.2);

- The flow rate range of the filling machine is changed to the maximum flow rate of not less than 40L/min, the range is not less than 5. 1 (See 5.2);

- Increases the amount of payment for the filling machine (see 5.6);

- According to OIMLR117-1..2007, the general technical requirements for the filling machine are more scientific and reasonable Provisions;

- refinement of the test conditions;

- The expansion uncertainty of the standard device should not exceed 1/3 of the absolute value of the maximum permissible error of the aerator 7.1.3);

- environmental conditions have been properly modified;

- for the filling machine test status quo, the standard volumetric flow meter test method as a main test method to be described (See 7.2);

- According to JJF1002-2010 "national measurement procedures for the preparation of rules" requirements, re-modify the test Certificate/Verification Result Page format.

The previous versions of this order are released as follows.

- JJG 997-2005.

Verification rules for liquefied petroleum gas filling machine

1 Scope

This procedure applies to the first test of liquefied petroleum gas filling machine (hereinafter referred to as filling machine), subsequent verification and use Check in.

2 reference file

This procedure refers to the following documents.

GB 19159 Car Liquefied petroleum gas GB/T 19238 Liquefied petroleum gas filling machine for automobiles Code for design and construction of GB 50156 automobile refueling station SH/T 0221 Determination of liquefied petroleum gas density or relative density (pressure density meter method) OIMLR117-1..2007 Dynamic metering systems for non-aqueous liquids - Part 1 Metrology and technical requirements (Dynamic measuring systems for liquids other than water-Part 1. metrological and technical requirements ASTM-IP-API Light Carbonate Liquid Petroleum Measurement Form (ASTM-IP-API Petroleum measurement tables for light hydrocarbon liquid, 1986) Petroleum Measurement Standards Manual 11.2.2. Hydrocarbons in (350 to 637) kg/m³ and (-46 ~ Compression factor at 60 ° C (Manual of petroleum measurement standards, Chapter 11.2.2M-Compressibility factors for hydrocarbons. 350-637 kilograms per cubic meter density (15 ° C) and -46 ° C to 60 ° C metering temperature, 1986) for dated references, only the dated edition applies to this rule; references that are not dated , The latest version (including all amendments) applies to this procedure.

3 terms and units of measurement 3.1 terminology

3.1.1 Car liquefied petroleum gas liquefied petroleum gas for vehicle A liquid petroleum products for automotive fuels, referred to as LPG, propane, butane as the main component.

3.1.2 Baseline conditions base condition LPG at 15 ° C, saturated vapor pressure conditions.

3.1.2 base volume the volume value of LPG under the reference condition.

Gasoline Gas Filling Machine LPG dispenser for liquefied petroleum gas vehicles to provide liquefied petroleum gas fuel filling services, and with a metering, pricing device dedicated equipment.

[GB/T 19238, definition 3.1]