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

JJG 996-2012

Replacing JJG 996-2005

**Verification Regulation of Compressed Natural Gas Dispensers
(English Translation)**

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Table of Contents

Introduction (III)	
1 Scope (1)	
2. References (1)	
3 Terminology and units of measurement (1)	
3.1 The term (1)	
3.2 Units of measurement (2)	
4 Overview (2)	
4.1 Structure (2)	
4.2 Principle (2)	
5 Metering performance requirements (3)	
5.1 The maximum permissible error (3)	
5.2 Repeatability (3)	
5.3 Amount Paid error (3)	
6 General Requirements (3)	
6.1 Appearance and accompanying documents (3)	
6.2 Feature set (3)	

3 Terminology and units of measurement (1)

3.1

The term (1)

5 Metering performance requirements (3)

5.1

The maximum permissible error (3)

6.2 Feature set (3)

Tightness 6.3 (4)

7.4 Test cycle (8)

Appendix A mass Gas Flow Standard Device (9)

Table B Standard Gas Flow Standard Device appendix (11)

Appendix C without pressure limiting protection of the filling machine (12)

Appendix D calibration certificate/test results notice within the page and format (13)

Introduction

This procedure is based on the national standard GB/T 19237-2003 "car with compressed natural gas filling machine" and international law System Metrology Organization (OIML) International Recommendation R139.2007 (E) "vehicle fuel gas compression system for measuring" (Compressed gaseous fuel measuring systems for vehicles) as a technical basis, combined with our filling Situation machine industries, JJG 996-2005 "CNG refueling machine" subject to revisions. In the main technical means Superscript and international recommendations, national equivalents.

Compared with JJG 996-2005, this procedure except editorial changes, the major technical changes are as follows.

- Modify the scope of application of procedures;
- Remove the original procedure in Appendix A "type of evaluation items and test methods", as a national type evaluation outline Technical specifications shall be formulated;
- Increased by large, medium and small flow filling machine terminology;
- Modify the nameplate of measuring instruments, increasing the minimum content to be measured;
- Modified with a pressure limiting protection structure and working principle function filling machine;
- Increase the structure and working principle without pressure limiting protection filling machine;
- Modify the voltage limiting protection pressure range;
- Modified using standard means test specifications;
- Modify the quality of the Gas Flow Standard device parameters associated equipment;
- Modify the measurement accuracy check (traffic interval, data processing, etc.);
- Modified calibration certificate/test results in the notice page format.

For CNG refueling machine volume displayed within one year after the implementation of this Regulation shall be changed to significant quality it shows the filling machine.

CNG filling machine verification procedures

1 Scope

The order applies to compressed natural gas filling machine (hereinafter referred to as

filling machine) initial verification, use and subsequent verification Check.

2. References

GB 18047 CNG

GB/T 19236 cars with compressed natural gas dispensing nozzles GB/T 19237 Automotive CNG refueling machine GB 50156 car design and construction of refueling stations OIMLR139.2007 (E) vehicle compressed gaseous fuel measuring systems (Compressed gaseous fuel measuring systems for vehicles) for dated references, only the dated edition applies to this procedure; undated reference documents Member, the latest edition (including any amendments) applies to this procedure.

3 terminology and units of measurement

3.1 Terms

3.1.1 CNG refueling machine compressed natural gas (CNG) dispenser CNG filling the gas container, with special equipment and devices such as metering and pricing. It comprises a mass Meter, electronic meter controller, quick disconnect valve, dispensing nozzles and the like.

3.1.2 Electronic meter controller electronic computer Computing and control means filling machine. May receive transmitted flow meter signal and voltage limiting transmission to the sensor Pressure signal, according to pre-set and filling machine parameters for computing and processing; you can transfer data and display operation Make, and automatically determine and control the flow of gas.

Note: The electronic meter controller to achieve the main function indication indicator, zeroing, adjust function, indicating the amount paid functions.

3.1.3 adjustment means adjustment device for adjusting the filling machine indication error, error indication ensure maximum permissible error of the device.

3.1.4 auxiliary device ancillary device Means for realizing filling machine special functions.

Note: The auxiliary device can achieve the main function preset function, the print function or IC card pre-paid functions.

3.1.5 Additional means additional device in order to ensure proper filling machine simplify device operation or measuring device for measuring an auxiliary operation and safe operation beyond.

Note: There are additional means dispensing nozzles, high pressure hose, pull off valves, quick disconnect valve or pressure-limiting sensors.

3.1.6 dispensing nozzles dispenser nozzle for filling or discharge of compressed natural gas, and in accordance with the manual specific tools GB/T 19236 requirements.