

ICS 17.120
CCS A 53

JJF

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

JJF 1369-2012

Replacing JJG 996-2005

**Program of Pattern Evaluation of Compressed Natural Gas
Dispensers
(English Translation)**

Issued on: January 1, 1970

Implemented on: January 1, 1970

**Issued by: General Administration of Quality Supervision, Inspection and
Quarantine**

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Introduction

This outline is based on the national standard GB/T 19237-2003 "car with compressed natural gas filling machine" and the international rule of law Metrology (OIML) International Recommendation R139.2007 (E) "vehicle compressed gaseous fuel measuring systems" (Compressed gaseous fuel measuring systems for vehicles) as a technical basis, combined with our filling machines Industry status quo, to JJG996-2005 "CNG refueling machine" A "type of evaluation items and test methods" Appendix Subject to revisions. With international recommendations on the main technical indicators, national equivalents.

The Memorandum and JJG996-2005 in A "type of evaluation items and test methods" Compared appendix, the main technical change of the following.

- 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;
- Increasing the flow of medium and small filling machine is the smallest measurement requirements;
- Modify the voltage limiting protection pressure range;
- Cancel the solenoid valve off test;
- Modify the type evaluation test specification standard equipment;
- Modify the quality of the Gas Flow Standard device parameters associated equipment;
- An increase of non-reference conditions and reference conditions during pattern

evaluation tests;

- Modify the measurement accuracy test (flow range, data processing, etc.);
- Modified test measured minimum number of measurements and data processing;
- Modified durability test methods and requirements;
- Modify the power adaptability test;
- Modify the original record format type evaluation.

CNG filling machine type evaluation outline

1 Scope

This type of evaluation outline is applied to compressed natural gas filling machine (hereinafter referred to as filling machine) pattern evaluation.

2. References

GB 4943.1-2011 Safety of information technology equipment - Part 1. General requirements
GB/T 17626.2 Electromagnetic compatibility Testing and measurement techniques - Electrostatic discharge immunity test
GB/T 17626.3 electromagnetic compatibility test and measurement technology RFEMS test
GB/T 17626.4 Electromagnetic compatibility Testing and measurement techniques - Electrical fast transient burst immunity test
GB/T 17626.5 electromagnetic compatibility test and measurement technology surge (impact) immunity test
GB/T 17626.11 Electromagnetic compatibility Testing and measurement techniques - Voltage dips, short interruptions and voltage variations Immunity Test
GB 18047 CNG
GB/T 19236 cars with compressed natural gas dispensing nozzles
GB/T 19237 Automotive CNG refueling machine
GB/T 2423.1 Environmental testing for electric and electronic products Part 2. Test methods Test A. Cold
GB/T 2423.2 Environmental testing for electric and electronic products Part 2. Test methods Test B. Dry heat
GB/T 2423.4 Environmental testing for electric and electronic products Part 2. Test methods - Test Db. alternating wet Thermal (12h 12h cycle)
GB 50156 car design and construction of refueling stations
OIMLR139.2007 (E) vehicle compressed gaseous fuel measuring systems (Compressedgaseousfuel measuringsystemsforvehicles) these documents contain provisions which through reference in this syllabus constitute provisions of this outline. For dated reference documents Member, all subsequent amendments (not including errata content) or revisions do not apply to this outline. However, the drum Reed whether the latest versions of these files according to the parties that this outline agreement. Those who do not note cited date Use, the latest versions apply to this outline.

3 Terms

3.1 CNG refueling machine compressednaturalgas (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.

3.2 meter electronic controller electroniccomputer 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.