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

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Replacing JJG 577-2005

**Test Program for Pattern Evaluation of Diaphragm Gas Meters
(English Translation)**

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Introduction

This specification is based on the national standard GB/T 6968-2011 "diaphragm gas meter", the International Organization of Legal Metrology (OIML) International Recommendation R137-1 Close Current Situation diaphragm gas meter industry for JJG577-2005 version A "type evaluation test program" into the appendix Line revision. The main technical indicators and national standards equivalent to international recommendations.

Compared with this specification version JJG577-2005 Appendix A "type evaluation test program", the main technical change as follows.

- Cancel the measurement level, using the level of accuracy of representation;
- Modify the counter technical requirements;
- Modify the parameters of the gas meter flow range;
- Modify the test environment requirements;
- Cancel the torque effect on performance requirements;
- Cancel the standard deviation of the test;
- In place of the electromechanical conversion error;
- Changed the time indication error test minimum ventilation requirements;
- Increased anti-reverse function tests;
- Increasing the temperature of the aptitude test;
- Increasing the control valve leakage test;
- Increased traffic overload test.

JJG577-2005 Appendix A of the previously issued as follows.

- JJG577-1994 "diaphragm gas meter" Appendix 2 "full-performance test items the gas meter, apparatus and law";
- JJF 1086-2002 "diaphragm gas meter stereotypes qualification program." Diaphragm Gas Meter Type Evaluation Outline

1 Scope

This instruction applies to diaphragm gas meter (hereinafter referred to as gas meter) of pattern evaluation.

2. References

This specification refers to the following documents.

JJG577 diaphragm gas meter JJF 1001-2011 common measurement terms and definitions JJF 1004 flow measurement terminology and definitions 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 2423.3 Environmental testing for electric and electronic products Part 2. Test methods Test Cab. constant wet Thermal Test GB/T 6968-2011 diaphragm gas meter 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 OIMLR137-1 OIMLD11.2004 General requirements for electronic measuring instruments (General requirements for electronic measuring instrument) EN1359:1998 A1.2006 Diaphragm Gas Meter (Diaphragm Gas Meters) these documents contain provisions which through reference in this specification the terms of this specification. For dated reference documents Member, all subsequent amendments (not including errata content) or revisions do not apply this standard, however, encourage Whether the latest versions of these files according to the study of this specification parties to reach an agreement. For undated references the File, the latest edition (including any amendments) applies to this specification.

3 Terms

3.1 Maximum flow q_{max} maximum flow-rate q_{max} in line with the upper limit of the gas meter flow measurement performance requirements.

3.2 Minimum flow rate q_{min} Gas meter flow measurement in line with the lower performance requirements.

3.3 Transitional Flow q_t transitional flow-rate q_t Interposed between maximum flow and minimum flow, the gas meter flow range is divided into "zones of high" and "low zone" stream the amount. Gas meter corresponding maximum permissible error in the upper zone and lower zone each. q_t is $0.1q_{max}$.