

ICS 17.100
CCS A 53

JJF

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

JJF 1415-2013

**Program of Pattern Evaluation of Elastic Element Pressure
Gauges, Pressure-Vacuum Gauges and Vacuum Gauges for
General Use**

(English Translation)

Issued on: January 1, 1970

Implemented on: January 1, 1970

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

Table of Contents

Introduction (V)	
1 Scope (1)	
2. References (1)	
3 Terms (1)	
4 Overview (2)	
5 Legal management requirements (2)	
5.1 Units of measurement (2)	
5.2 Accuracy class (2)	
5.3 Legal metrology marking and identification instruments (2)	
5.4 External structural design requirements (2)	
5.5 Provide technical review of documents (2)	
5.6 Experimental Prototype (2)	
6 Measurement requirements (3)	
6.1 Indicating means (3)	
6.2 Zero error (3)	
6.3 Indication error (3)	
6.4 Return Error (4)	
6.5 Displacement tap (4)	
6.6 Pointer (brush) yaw stability (5)	
6.7 Setpoint deviation (5)	
6.8 Switching difference (5)	
7 General Requirements (5)	
7.1 Extreme conditions (5)	
7.2 Reference conditions (5)	
7.3 Appearance (6)	
7.4 Ultra (static) pressure (6)	
7.5 Effect of temperature (6)	
7.6 Alternating pressure (7)	
7.7 Resistance to vibration performance work environment (8)	
7.8 Anti-environmental performance of transport (9)	
7.9 Anti-pulsation performance measured medium (9)	
7.10 Heat resistance (9)	

7.10 Heat resistance (9)

Strength 7.11 (10)

7.21 Scope (11)

Contact off function (11) 7.22 electrical signal device

7.29 Common-mode interference (13)

RFI 7.30 (13)

8 Type Evaluation Project (13)

Test conditions and test methods 9 projects (15)

9.20 Heat resistance (20)

Strength 9.21 (20)

9.39 Common-mode interference (25)

RFI 9.40 (26)

9.42 Output load change (26)

Processing (27) 10 type of evaluation results A time interval between the test sequence and project appendix (28) Appendix B-type elastic member general pressure gauges, pressure vacuum gauge and vacuum gauge type evaluation recording format (29)

Introduction

JJF 1015 "Measuring Instruments type evaluation and type approval general specification", JJF 1016 "Measuring Instruments type evaluation Outline guidelines for the preparation ", JJF 1002" national verification procedures writing rules "and JJF 1071" National Calibration Specifications writing rules "together constitute the basic series This specification developed.

This outline reference GB/T 1226-2010 "General gauge", JJG52 "elastic element gauge general formula, Pressure vacuum gauge and vacuum gauge ", JB/T 5491-2005" diaphragm pressure gauge ", JB/T 5527-2005" Marine Pressure Gauge ", JB/T 6804-2006" seismic pressure gauge ", JB/T 8624-1997" diaphragm pressure gauge " JB/T 9271-1999 "welding, cutting and allied processes gauge", JB/T 9272-1999 "ammonia pressure gauge" JB/T 9273-1999 "electrical contacts", JB/T 9274-1999 "diaphragm pressure gauge", JB/T 10203-2000 "remote gauge", all the elastic element pressure gauge all included in this

outline. At the same time, also with reference to the GB 3836.1-2000 "Electrical apparatus for explosive gas atmospheres - Part 1. General requirements", GB 3836.4-2000 "explosive gas environment with electrical equipment - Part 4. Intrinsic safety" i "", GB/T 2423.10-2008 "Environmental testing for electric and electronic products Part 2. Test methods Test Fc. Vibration (sinusoidal)" GB/T 2423.17-2008 "Environmental testing for electric and electronic products Part 2. Test methods - Test Ka. Salt Fog ", GB/T 2423.101-2008" Environmental testing for electric and electronic products Part 2. Test methods Test.

Tilt and sway ", JB/T 5528-2005" Scale and gauge division ", JB/T 9252-1999" Industrial Automation General requirements for basic types of meter pointer portion size and pointer ", JB/T 9329-1999 "Instruments transportation transport storage basic environmental conditions and test methods." Usually the elastic element type pressure gauges, pressure vacuum gauge and vacuum gauge type evaluation outline

1 Scope

This outline is applied to the measurement range (-0.1 ~ 250) MPa to spring tube, diaphragm, bellows and bellows and other elastic element as a pressure-sensing element of the pressure instrument (hereinafter referred to as instrumentation) of pattern evaluation.

2. References

This outline cited the following documents.

JJG52-2013 general formula elastic element pressure gauges, pressure vacuum gauge and vacuum gauge GB/T 1226-2010 General Pressure Gauge GB 3836.1-2000 Electrical equipment for explosive gas atmospheres - Part 1. General requirements GB 3836.4-2000 Electrical equipment for explosive gas atmospheres Part 4. Intrinsic safety "i" GB/T 2423.10-2008 Environmental testing for electric and electronic products Part 2. Test methods Test Fc.

Vibration (sinusoidal) GB/T 2423.17-2008 Environmental testing for electric and electronic products Part 2. Test methods - Test Ka.

Salt

GB/T 2423.101-2008 Environmental testing for electric and electronic products Part 2. Test methods Test. Pour Ramp and swing JB/T 5491-2005 diaphragm pressure gauge JB/T 5527-2005 Marine gauges JB/T 5528-2005 scale and gauge division JB/T 6804-2006 seismic pressure gauge JB/T 8624-1997 diaphragm pressure gauge the basic types JB/T 9252-1999 industrial automation, instrumentation pointer portion size and a pointer General technical requirements JB/T 9272-1999 ammonia pressure gauge JB/T 9273-1999 electrical contacts JB/T 9274-1999 diaphragm pressure gauge JB/T 9329-1999 Instrument transportation transport storage basic environmental conditions and test methods JB/T 10203-2000 remote pressure gauge for dated references, only the dated edition applies to this outline; undated reference documents Member, the latest edition (including any

amendments) applies to this outline.

3 Terms

3.1 alternating pressure test cyclicpressuretest