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NATIONAL METROLOGY TECHNICAL SPECIFICATION OF THE PEOPLE'S REPUBLIC OF CHINA

JJF 1948-2021

Calibration Specification for Gasoline Vapor Recovery Detectors

油气回收检测仪校准规范

(English Translation)

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Introduction

This specification is based on JJF 1071-2010 "Rules for Compilation of National Metrology Calibration Specifications", JJF 1059.1-2012 "Measurement Uncertainty Evaluation and Representation", JJF 1001-2011 "General Metrology Terms and Definitions" and other specifications.

The main technical indicators of this specification refer to GB 20952 "Gas Station Air Pollutant Emission Standard", calibration method the formulation is based on JJG633-2005 "Gas Positive Displacement Flowmeter", JJG640-2016 "Differential Pressure Flowmeter" and Technical documents such as JJG875-2019 "Digital Manometer".

This specification is published for the first time.

Specification for calibration of vapor recovery detectors

1 Scope

This specification is applicable to the oil and gas recovery of which the flow measurement principle is differential pressure type and volume type, and the pressure measurement is digital pressure gauge.

Calibration of the detector.

2 Reference documents this specification references the following documents.

JJG633-2005 Gas volumetric flowmeter JJG640-2016 Differential pressure flowmeter JJG875-2019 Digital pressure gauge GB 20952 Gas Station Air Pollutant Emission Standard for dated references, only the dated version applies to this specification; for undated references the latest version (including all amendments) applies to this specification.

3 Terminology and units of measurement

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3.1 Terminology

Terms defined in JJG633-2005, JJG640-2016, JJG875-2019 and GB 20952 and the following terms and Definitions apply to this specification.

3.1.1 Oil and gas gasolinevapor [GB 20952-2007, 3.2] Volatile organic compounds (non-methane total hydrocarbons) produced during refueling, unloading, and storage of gasoline at gas stations.

The volatilized oil and gas are sealed and collected, and the oil and gas-air mixture is mixed by absorption, adsorption, condensation, etc.

The process of separation and recycling.

3.2 Units of measurement the unit of measurement is shown in Table 1.

Table 1 Units of measurement

Quantity name unit unit symbol volume Cubic meters m3 flow Liters per minute L/min Cubic meters per [hour] hour m3/h

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