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

GB/T 26481-2022

Replacing GB/T 26481-2011

Industrial valves test for fugitive emissions

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foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for Standardization Work Part 1. Structure and Drafting Rules for Standardization Documents" drafting.

This document replaces GB/T 26481-2011 "Valve Emission Test". Compared with GB/T 26481-2011, except for structural adjustment and

Apart from editorial changes, the main technical changes are as follows.

- a) Changed the scope requirements (see Chapter 1, Chapter 1 of the.2011 edition);
- b) Added the terms and definitions of "product acceptance test" (see Chapter 3, Chapter 3 of the.2011 edition);
- c) Delete the inspection requirements (see Chapter 4 of the.2011 edition);
- d) Changed the requirements for leakage level C at the valve stem seal, from "1000ppmv" to "200ppmv" (see Table 1,.2011 edition table1);
- e) Delete the retest requirement (see 7.2 of the.2011 edition);
- f) Deleted Appendix A "Leakage measurement method using the suction method" (see Appendix A of the.2011 edition).

This document is modified to adopt ISO 15848-2.2015 "Measurement, Test and Appraisal Procedures for Fugitive Medium Leakage of Industrial Valves Part 2"

Part. Valve Product Acceptance Test".

The technical differences between this document and ISO 15848-2.2015 and their reasons are as follows.

- a) Changed the scope requirements (see Chapter 1) to meet the needs of our country in

practical applications;

b) Replaced ISO 15848-1.2015 (see Chapter 3~Chapter 6) with the normative reference GB/T 40079-2021, the two documents

The degree of consistency between the files is modified to meet the application needs of our country;

c) It is added that the valve stem (shaft) seal is not allowed to be adjusted after the start of the test (see 4.3), so as to meet the actual needs of product inspection in my country;

d) Delete the requirements for judging the sealing level of the valve stem (shaft) seal (see 6.1 of ISO 15848-2.2015), which is consistent with the requirements in Table 1

repeat.

The following editorial changes have been made to this document.

---Change the name of the document to "Fugitive Test of Industrial Valves".

Please note that some contents of this document may refer to patents. The issuing agency of this document assumes no responsibility for identifying patents.

1 Scope

This document specifies the valves whose medium will produce volatile polluting gas or dangerous gas, check the valve stem (shaft) and valve body

Product acceptance test procedure for leakage at joints.

This document is applicable to the fugitive test of industrial valves with fugitive requirements during production and delivery.

This document does not apply to product acceptance tests for end connections, vacuum applications, corrosion and radiation applications.

2 Normative references

The contents of the following documents constitute the essential provisions of this document through normative references in the text. Among them, dated references

For documents, only the version corresponding to the date is applicable to this document; for undated reference documents, the latest version (including all amendments) is applicable to

this document.

GB/T 40079-2021 Valve fugitive test classification and qualification procedures (ISO 15848-1.2015, MOD)

3 Terms and Definitions

The following terms and definitions defined in GB/T 40079-2021 apply to this document.

3.1

A factory test of the valve to verify that it meets the requirements of this document.

4.1 Number of test valves

The acceptance test of each batch of products is based on the valve type, nominal pressure, and nominal size, and the sampling quantity is determined by the manufacturer and the buyer through negotiation.

The random sampling quantity of each valve shall not be less than 1.

4.2 Conditions for test valves

4.2.1 For valves that have passed the fugitive test according to GB/T 40079-2021, before the acceptance specified in this document, the selected valves can be considered as

Relevant product tests and tests specified by the buyer are qualified.

4.2.2 The manufacturer should ensure that the packing and sealing gasket of the valve are dry before the test (there should be no moisture or it should be carried out after the hydrostatic test).

4.3 Adjustment of valve stem (shaft) seal

Before the test, the preload of the valve stem (shaft) seal should be adjusted according to the instructions of the valve manufacturer; adjustment is not allowed after the start of the test.

5.1 Test medium

The test medium is helium, and its volume fraction should not be lower than 97%.