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

GB/T 12232-2025

Replacing GB/T 12232-2005

General purpose industrial valves - Flanged iron gate valves

通用阀门 法兰连接铁制闸阀

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Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part

1. Structure and Drafting Rules of Standardization Documents". Drafting. This document replaces GB/T 12232-2005 "General Valves - Flanged Iron Gate Valves". Compared with GB/T 12232-2005, except for... Aside from structural adjustments and editorial changes, the main technical changes are as follows:

- a) The scope has been changed (see Chapter 1, Chapter 1 of the.2005 edition);
- b) The requirements for shell wall thickness have been changed (see Table 1,.2005 edition);
- c) The requirements for the gate have been changed (see 5.4, 4.5.4 in the.2005 edition);
- d) The minimum diameter requirement for the valve stem has been changed (see Table 2, Table 3 in the.2005 edition);
- e) The requirements for the packing material have been changed (see 5.6, 4.7 of the.2005 edition);
- f) Added requirements for the installation direction, operation, lifting rings, and foundation of gate valves (see 5.11, 5.13);
- g) The requirement for internal cavity cleanliness has been removed (see 4.12 in the.2005 edition);
- h) The maximum opening height requirement for gate valves has been removed (see Table 4 in the.2005 edition);
- i) Increased requirements for the sealing leakage level of the sealing pair (see 5.14.2);

1 Scope

GB/T 12232-2025 is the Chinese national standard on general purpose industrial valves - flanged iron gate valves, in the field of fluid systems and general-purpose components. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 31 October 2025 by the State Administration for Market Regulation; Standardization Administration of China, and has been in force since 1 May 2026. Classification: ICS 23.060.30, CCS J16. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken

from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This document specifies the structural type, technical requirements, test methods, inspection rules, marking, and supply requirements for flanged iron gate valves. This document applies to flange connections made of gray cast iron and ductile iron with nominal pressure PN2.5~PN25 and nominal size DN50~DN2000. Design, production and inspection of gate valves (hereinafter referred to as "gate valves").

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included. For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies. This document.

GB/T 228.1 Metallic materials - Tensile testing - Part

3 Terms and Definitions

This document does not contain any terms or definitions that need to be defined.

4. Structural Type The typical structure of a rising stem gate valve is shown in Figure 1, and the typical structure of a non-rising stem gate valve is shown in Figure 2.