

ICS 23.060.50

CCS J16



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

GB/T 12233-2025

Replacing GB/T 12233-2006

**General purpose industrial valves - Casting iron globe valves
and lift check valves**

通用阀门 铁制截止阀与升降式止回阀

Issued on: October 31, 2025

Implemented on: May 1, 2026

**Issued by: State Administration for Market Regulation;
Standardization Administration of China**

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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 supersedes GB/T 12233-2006 "General Valves - Iron Gate Valves and Lift Check Valves", and is consistent with GB/T 12233-2006. In comparison, aside from structural adjustments and editorial changes, the main technical changes are as follows:

- a) The scope of application has been changed (see Chapter 1, Chapter 1 of the.2006 edition);
- b) The parameter has been removed (see 3.3 in the.2006 version);
- c) Working conditions have been removed (see 4.2 in the.2006 edition);
- d) The length of the internal threaded connection structure has been changed (see Table 1,.2006 edition);
- e) The minimum wall thickness requirements for the valve body and bonnet have been changed (see Table 2,.2006 edition);
- f) The minimum valve stem diameter requirement has been changed (see 5.8.1, 4.6.1 in the.2006 edition);
- g) Added valve stem forming requirements (see 5.8.5);
- h) The requirements for the packing material have been changed (see 5.9, 4.7 of the.2006 edition);

1 Scope

GB/T 12233-2025 is the Chinese national standard on general purpose industrial valves - casting iron globe valves and lift check 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 23.060.50, 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 types, model designations, technical requirements, test methods, and inspection rules for iron gate valves and lift check valves. Markings, labels and accompanying documents, as well as packaging, transportation and storage. This document applies to internal containers with a nominal pressure not exceeding PN16, nominal size DN15~DN200, and applicable medium temperature not exceeding 200°C. Design, production and inspection of iron gate valves and lift check valves with threaded and flanged connections.

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 191 Pictorial Symbols for Packaging and Storage

GB/T 5796.3 Trapezoidal Threads - Part

3 Terms and Definitions

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

4.1 Structural Type

4.1.1 The typical structure of a stop valve is shown in Figure 1 and Figure 2.