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

GB/T 35208-2017

Replacing GB/T 35208-2017

**Overflow cutoff valves for liquefied petroleum gas cylinders
(English Translation)**

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Appendix A (Normative) Basic Dimensions, Outlet Port and Connector Structure and Dimensions of Straight Valves

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Reference

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 35208-2017 "Self-closing Liquefied Petroleum Gas Cylinder Valves". Compared with GB/T 35208-2017, the only changes are in the structural design.

Aside from integration and editorial changes, the main technical changes are as follows.

a) The terms "protective cap/dust cap," "valve column," "external airtightness," and "internal airtightness" and their definitions have been deleted (see section 3.1 of the 2017 edition).

Articles 3.3, 3.4, and 3.5 have added the terms "baseline condition" and "rated cutoff flow rate" and their definitions (see 3.1 and 3.2).

b) The valve model designation has been changed (see Chapter 4, Chapter 4 of the 2017 edition);

c) Added requirements for the basic dimensions of angle valves (see 5.1), and changed the requirements for the basic dimensions of straight valves (see 5.1, 2017 edition).

5.1) The basic dimensions of the valve and the schematic diagram of the self-closing liquefied petroleum gas cylinder have been deleted (see Table 1 and Figure 1 in the 2017 edition);

- d) Increased design requirements for valve structure (see 5.2);
- e) Design requirements for the overcurrent cut-off device structure and reset mechanism have been added (see 5.3, 5.4, and 5.5);
- f) The specification of the liquid phase cylinder valve inlet thread PZ39.0 has been added, and the plastic-lined, fully fiber-wound cylinder valve inlet thread M26x Specifications of 1.5 (see 5.6);
- g) Added requirements for the thread of the angle valve outlet (see 5.7);
- h) The requirement for the diameter of the straight valve outlet has been increased (see 5.8);
- i) Added requirements for the liquid phase bottle valve's liquid phase pipe thread (see 5.9);
- j) Requirements for smart valves have been added (see 5.10);
- k) The design service life requirement has been changed (see 5.11, 6.4 of the 2017 version);
- l) The requirements for valve body materials and main metal component materials have been changed (see 6.1.1.2, 6.1.2.1 and 6.1.2.2 in the 2017 version, and Table 2);
- m) The requirements for non-metallic sealing materials have been changed (see 6.1.1.3, and 6.1.3.1, 6.1.3.2, 6.1.3.3, and 6.1.3.5 in the 2017 edition);
- (n) The requirement for stress-relieving heat treatment after valve body machining has been added (see 6.2.2);
- o) The requirement for the actual weight after assembly has been changed (see 6.2.5, 6.2.4 in the 2017 version);
- p) The performance requirements for the valve body have been changed (see 6.3, 2017 version of 6.3);
- q) The requirement for the cut-off capability of the overcurrent cut-off device has been increased (see 6.3.3);
- r) Increased requirements for the durability of overcurrent cut-off devices (see 6.3.4);
- s) The temperature resistance test method has been changed (see 7.8, 7.17 in the 2017 edition);
- t) A test method for the cutting-off performance of the overcurrent cut-off device has been added (see 7.9);
- u) A test method for the durability of the overcurrent cut-off device has been added (see 7.10);
- v) The factory inspection requirements have been changed (see 8.2, 2017 version 8.2);

- w) The type testing requirements have been changed (see 8.3, 2017 version 8.3);
- x) The inspection item table has been changed (see Table 1, Table 4 in the 2017 version);
- y) The contents of the valve's permanent markings have been changed (see 9.1.1, 2017 version 9.1);
- z) The requirement for electronically readable markings on valves has been increased (see 9.1.2);
- aa) Added requirements for publicizing the website and factory documentation (see 9.3);
- (bb) The requirements for the outlet diameters of phi21mm and phi22mm, as well as the structural type and dimensions of their connecting joints, have been removed (see Appendix A).

Appendix A of the 2017 edition).

Please note that some content in this document may involve patents, and the issuing organization of this document assumes no responsibility for identifying patents.

This document was proposed and is under the jurisdiction of the State Administration for Market Regulation.

The previous versions of the standard replaced by this document are as follows.

---First published in 2017 as GB/T 35208-2017 "Self-closing Liquefied Petroleum Gas Cylinder Valves";

---This is the first revision.

Introduction

The valve on a liquefied petroleum gas cylinder is a crucial accessory; its safety and reliability are directly related to the safety of people's lives and property, and social order.

Public safety and sustainable development of the industry.

This document and GB 7512 are both product standards for liquefied petroleum gas cylinder valves. GB 7512 mainly targets valves with self-closing devices at the outlet.

The liquefied petroleum gas (LPG) cylinder valve uses an automatic shut-off device to prevent LPG leakage. This document primarily addresses the design of valves with...

The main function of an LPG cylinder valve with overcurrent shut-off function is to cut off the flow of LPG in the event of a large leak during an accident.

The shut-off device quickly cuts off the external leakage of liquefied petroleum gas, preventing further accidents. Liquefied petroleum gas cylinder valves with overcurrent shut-off functions also...