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

GB/T 12246-2025

Replacing GB/T 12246-2006

Pilot operated pressure reducing valves

先导式减压阀

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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 12246-2006 "Pilot-operated pressure reducing valves". Compared with GB/T 12246-2006, the only changes are structural adjustments and editing. Aside from the sexual alterations, the main technical changes are as follows:

- a) The scope has been changed (see Chapter 1, Chapter 1 of the.2006 edition);
- b) The terms "integrated pilot-operated pressure reducing valve" and "split pilot-operated pressure reducing valve" and their definitions have been added (see Chapter 3);
- c) A typical structural diagram of a split-type pilot-operated pressure reducing valve has been added (see Figure 3);
- d) The component requirements have been removed and the requirements for the adjusting spring pressure level have been changed (see 5.2, 4.4 of the.2006 version);
- e) Performance requirements have been changed (see 5.3, version
- f) The signage was changed and painting requirements were added (see Chapter 8, Chapter 7 of the.2006 edition). Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents. This document was proposed by the China Machinery Industry Federation. This document is under the jurisdiction of the National Technical Committee on Valve Standardization (SAC/TC188). This document was drafted by: Hefei General Machinery Research Institute Co., Ltd., Zhejiang University, and Shanghai Guanlong Valve

Energy-Saving Equipment Co., Ltd. Sinopec Ningbo Engineering Co., Ltd., Shanghai Biaoyi Valve Co., Ltd., CNNC Suzhou Valve Technology Industry Co., Ltd., and Anhui Hongxing Valve Co., Ltd. Limited Liability Company, Hangzhou Chunjiang Valve Co., Ltd., Anhui Special Equipment Inspection Institute, Chengdu Chuanli Intelligent Fluid Equipment Co., Ltd., Zhejiang Ao Dehua Technology Co., Ltd., Shanghai Hang Technology Group Co., Ltd., Hangzhou Special Equipment Inspection and Research Institute (Hangzhou Special Equipment Inspection and Research Institute) Emergency Response Center), Yuanda Valve Group Co., Ltd., Jiangsu Tenglong Petrochemical Machinery Co., Ltd., Hefei Tong'an Engineering Machinery Equipment Supervision Co., Ltd. Company, China Valve Holding (Group) Co., Ltd., Zhejiang Di'ai Intelligent Control Technology Co., Ltd., Tianjin Better Fluid Control Valve Co., Ltd. Shandong Yibaitong Valve Co., Ltd., Shanghai Shengjiang Machinery Equipment Co., Ltd., and Zhengfeng Valve Group Co., Ltd. The main drafters of this document are. Chen Fengguan, Sun Fuguang, Xu Yong, Wang Jie, Li Zhong, Huang Zhimin, Han Anwei, Yan Jie, Yuan Xin, Hu Kongyou, and Zhang Wei. Wu Ganghui, Chen Wengong, Chen Tao, Du Liwei, Dai Yiming, Ma Xiangfeng, Chen Zhiwen, Yao Ludong, Li Dongming, Lü Guoqin, Ye Liquan, Wang Ye. This document was first published in 1989, revised for the first time in 2006, and this is the second revision. pilot-operated pressure reducing valve

1 Scope

GB/T 12246-2025 is the Chinese national standard on pilot operated pressure reducing 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 23.060.99, 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 painting, packaging, and transportation of pilot-operated pressure reducing valves. Transportation and storage. This document applies to nominal sizes DN15~DN800 and nominal pressures PN10~PN100, or nominal sizes NPS~NPS32. Pilot-operated pressure reducing valves with nominal pressure Class 150~Class 600, and working media including gas, liquid, and steam with temperature not exceeding 300°C. Design, production, and inspection.

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 699 High-quality carbon structural steel

GB/T 1220 Stainless Steel Bars GB/T 1222 Spring Steel

GB/T 1239.2-2009 Technical conditions for cold-rolled cylindrical helical springs - Part

3 Terms and Definitions

The terms and definitions defined in GB/T 12244, GB/T 12245, and GB/T 21465, as well as the following terms and definitions, apply to this document.