



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

GB/T 45344-2025

**General technical requirements for fabricated and prefabricated
gas piping used in buildings**

建筑用装配式预制燃气管道通用技术条件

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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. Please note that some of the contents of this document may involve patents. The issuing organization of this document does not assume the responsibility for identifying patents. This document is proposed and coordinated by the Ministry of Housing and Urban-Rural Development of the People's Republic of China. This document was drafted by: China Municipal Engineering North China Design and Research Institute Co., Ltd., Meide Yachang Group Co., Ltd., Zhuojia Public Utilities Cheng (Ma'anshan) Co., Ltd., China Municipal Engineering Central South Design and Research Institute Co., Ltd., Shenzhen Gas Group Co., Ltd., China Municipal Engineering Southwest Design and Research Institute Co., Ltd., Guizhou Gas and Heat Design Co., Ltd., Hong Kong and China Investment Co., Ltd., Zhejiang Jiuli Special Materials Technology Co., Ltd., Anhui Jianzhu University, Beijing Gas Group Co., Ltd., Guangzhou Gas Group Co., Ltd., Chongqing Gas Gas Design and Research Institute Co., Ltd., Guizhou Gas Group Co., Ltd., Guangdong FoRan Technology Co., Ltd., Hangzhou Urban and Rural Construction Design China Academy of Design Co., Ltd., China Resources Gas Zhengzhou Engineering Construction Co., Ltd., Henan Zhongyu Gas Engineering Design Co., Ltd., Meide Group Co., Ltd. Company, Ningbo Xinyida Energy Equipment Manufacturing Co., Ltd., Zhejiang Mingshi Stainless Steel Co., Ltd., Zhejiang Shuaifeng Electric Co., Ltd., Zhejiang Jinzhou Pipeline Technology Co., Ltd., Jinan Maik Pipeline Technology Co., Ltd., Chengdu Gongtong Pipeline Industry Group Co., Ltd., Sichuan Longlike Stainless Steel Pipe Co., Ltd., Vigus (Shanghai) Fluid Technology Co.,

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1 Scope

GB/T 45344-2025 is the Chinese standard for prefabricated gas pipework assemblies used in buildings: the riser sections, manifolds and meter connections made up in a factory and installed on site as units rather than cut and joined by hand in the building. The point of prefabrication here is the joint: most gas leaks in a building begin at a connection made on site, and a factory-made and factory-tested assembly removes that step. The standard sets the classification and designation, the materials, the design and structural requirements, the requirements for the assembly and its joints including strength and tightness, the corrosion protection, the test methods, the inspection rules and the marking, packaging, transport and storage. For a gas utility, a developer, a prefabrication supplier or a building control body in China, this is the text an assembly is accepted against.

This document specifies the classification and model, materials, structure, size and connection, requirements, test methods of prefabricated gas pipelines for buildings. method, factory inspection, marking, installation instructions, packaging, transportation and storage. This document is applicable to buildings where the conveying fluid is town gas, the nominal pressure (PN) is not greater than 0.4MPa, and the nominal size is not greater than DN

80 Prefabricated gas pipelines.

2 Normative references

The contents of the following documents constitute essential clauses of this document through normative references in this document. For referenced documents without a date, only the version corresponding to that date applies to this document; for referenced documents without a date, the latest version (including all amendments) applies to This document.

GB/T 196 Basic dimensions of common threads

GB/T 222 Permissible deviation of chemical composition of finished steel products

GB/T 2828.1 Sampling procedures for inspection by attributes Part

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