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

GB/T 10002.2-2023

**Unplasticized poly (vinyl chloride) (PVC-U) fittings for water
supply**

给水用硬聚氯乙烯 (PVC-U) 管件

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Table of Contents

1 Scope	1
2 Normative reference documents	1
4 Material	2
5 Product Category	3
6 Requirement	3
7 System suitability	7
8 Test method	7
9 Inspection rules	8
33 Reference	37

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 is Part 2 of GB/T 10002. GB/T 10002 has published the following parts.

1. Rigid polyvinyl chloride (PVC-U) pipes for water supply;
2. Rigid polyvinyl chloride (PVC-U) pipe fittings for water supply;
3. Rigid polyvinyl chloride (PVC-U) valves for water supply. Please note that some content in this document may be subject to patents. The publisher of this document assumes no responsibility for identifying patents. This document is proposed by China Light Industry Federation. This document is under the jurisdiction of the National Technical Committee for Standardization of Plastic Products (SAC/TC48). This document was drafted by: AD Co., Ltd., Chengdu Chuanlu Plastic Group Co., Ltd., Guangdong Liansu Technology Industrial Co., Ltd., Zhejiang Jiangzhongcai Pipeline Technology Co., Ltd., Liaoning Provincial Product Quality Supervision and Inspection Institute, Beijing Building Materials Inspection Institute Co., Ltd., Jinde Pipe Industry Group Co., Ltd., Nanya Plastics Industry (Xiamen) Co., Ltd., Zhongshan Huanyu Industrial Co., Ltd., Light Industrial Plastic Processing Application Research Institute. The main drafters of this document. Huang Jian, Jia Lirong, Li Tongyi, Wang Baiti, Liu Hongbo, Yin Duoyuan, Chen Min, Lin Yanqing, Zeng Zhenguo, Xiang Aimin, Li Xiaohan.

Plastic pipes and pipe fittings are widely used in urban tap water supply projects, internal and external building water supply projects, and farmland water conservancy and irrigation.

Engineering, water supply projects for industrial and mining enterprises, water supply projects for landscaping and greening, aquaculture water supply and drainage projects, etc. GB/T 10002 aims to standardize the production and use of rigid polyvinyl chloride (PVC-U) pipes, fittings and valves for water supply. The olefin piping system consists of the following 3 parts.

- 1.Rigid polyvinyl chloride (PVC-U) pipes for water supply, the purpose is to standardize the technology of rigid polyvinyl chloride pipe products for water supply technical requirements;
- 2.Rigid polyvinyl chloride (PVC-U) pipe fittings for water supply, the purpose is to standardize the technology of rigid polyvinyl chloride pipe fittings for water supply technical requirements;
- 3.Rigid polyvinyl chloride (PVC-U) valves for water supply, the purpose is to standardize the technology of rigid polyvinyl chloride valve products for water supply technical requirements. Among them, Part 2 was first published as GB/T 10002.2-1988 in 1988, revised for the first time in 2003, and later changed to GB/T 10002.1- Replaced in 2006 and reformulated this time. Rigid polyvinyl chloride (PVC-U) pipe fittings for water supply

1 Scope

GB/T 10002.2-2023 is the Chinese national standard on unplasticized poly (vinyl chloride) (pvc-u) fittings for water supply, in the field of rubber and plastic industries. 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 7 September 2023 by the State Administration for Market Regulation; Standardization Administration of China, and has been in force since 1 April 2024. Classification: ICS 83.140.30, CCS G33. 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 rigid polyvinyl chloride (PVC-U) compound used as raw material, which is injection molded and pipe-bent. Materials, product classifications, requirements, system applicability, inspection rules, marking, packaging and transportation of vinyl chloride (PVC-U) pipe fittings (hereinafter referred to as "pipe fittings") Transmission, storage, and test methods are described. This document is applicable to rigid polyvinyl chloride (PVC-U) pipe systems for underground water supply in buildings or outdoors with water temperatures not exceeding 45°C, including Pressure water transmission and potable water distribution for general purposes. This document also applies to pressure drainage piping systems. Note

- 1.For the pressure reduction coefficient at operating temperatures between 0°C and 45°C,

see Appendix A in GB/T 10002.1-2023. Note

2. The purchaser is responsible for appropriately selecting the products specified in this document based on its specific application needs and in conjunction with relevant regulations, standards or specifications.

2 Normative reference documents

The contents of the following documents constitute essential provisions of this document through normative references in the text. Among them, the dated quotations For undated referenced documents, only the version corresponding to that date applies to this document; for undated referenced documents, the latest version (including all amendments) applies to this document.

GB/T 1033.1 Determination of density of plastic non-foam plastics Part