

ICS 91.010.30

CCS P57



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

**GB/T 43824-2024**

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**Technical specification for water supply projects in towns and  
villages**

村镇供水工程技术规范

**Issued on: March 15, 2024**

**Implemented on: July 1, 2024**

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

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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 Water Resources of the People's Republic of China. This document was drafted by: China Irrigation and Drainage Development Center, China Institute of Water Resources and Hydropower Research, Hubei Institute of Water Resources and Hydropower Research, Hunan Water Conservancy and Hydropower Survey, Design and Planning Research Institute Co., Ltd., Henan Urban and Rural Water Affairs Research Institute Co., Ltd., Hebei Water Conservancy and Hydropower Survey and Design Planning Research Institute Co., Ltd. Surveying and Design Institute Group Co., Ltd., Shandong Water Resources Science Research Institute, Tsinghua University, and Fudan University. The main drafters of this document are. Zhang Hansong, Liu Wenchao, Wu Xiaomei, Li Lianxiang, Dong Shengwen, Zhang Jie, Yang Fengdong, Li Xiaoqin, Liu Kunpeng, Zhang Nan, Jia Yannan, Sun Wenjun, He Jian, Wang Xueying, Zhao Cui, Song Weikun, Jin Li, Yang Feng, Diao Xiaoli, and Qu Junpu. Technical specifications for village and town water supply projects

## 1 Scope

GB/T 43824-2024 is the Chinese technical specification for rural and township water supply projects, and it governs one of the largest pieces of public infrastructure work in the world: the extension of piped, treated water to villages and small towns across China. Its engineering problem is not the one a city water code addresses. The schemes are small, the sources are often shallow groundwater or a small surface intake of variable quality, the demand is seasonal and hard to forecast, the pressure has to be delivered across dispersed settlements, and there is rarely a full-time operator. The standard is organised the way such a project is developed: the basic requirements, the project planning, the design basis for centralised supply schemes covering the design supply scale and water consumption, the water quality and pressure to be delivered and the flood, seismic, structural and electrical requirements; then the water source and intake structures, the treatment, the storage and pumping, the transmission and distribution network, the plant and instrumentation, the construction and acceptance, and the operation and management. It takes effect on 1 July 2024.

This document specifies the requirements for each stage of planning, design, construction, acceptance and operation management of village and town water supply projects. This document applies to the construction and management of village and town water supply projects.

## 2 Normative references

The contents of the following documents constitute the 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 3838 Surface water environmental quality standard

GB 5749 Sanitary standard for drinking water

GB/T 5750 (all parts) Standard test methods for drinking water

GB/T 6111 Determination of the resistance to internal pressure of thermoplastic piping systems for fluid transportation

GB 8978 Comprehensive sewage discharge standard

GB/T 14848 Groundwater Quality Standard

GB 15603 General Rules for Storage of Hazardous Chemicals in Warehouses

GB/T 17219 Safety evaluation standard for drinking water transmission and distribution equipment and protective materials

GB/T 28714 Technical Guidelines for Water Intake Measurement

GB/T 30948 Technical management regulations for pumping stations

GB/T 35580 Guidelines for water resources demonstration of construction projects

GB 50013 Outdoor water supply design standard

GB 50016 Code for Fire Protection Design of Buildings