

ICS 91.140.60

CCS N 12



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

GB/T 778.5-2018

**Meters for cold potable water and hot water -- Part 5:
Installation requirements**

Issued on: June 7, 2018

Implemented on: January 1, 2019

**Issued by: State Administration for Market Regulation, China National
Standardization Administration**

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Foreword

GB/T 778 "Drinking cold water meter and hot water meter" is divided into the following five parts.

- Part 1. Measurement requirements and technical requirements;
- Part 2. Test methods;
- Part 3. Test report format;
- Part 4. Non-metering requirements not included in GB/T 778.1;
- Part 5. Installation requirements.

This part is the fifth part of GB/T 778.

This part is drafted in accordance with the rules given in GB/T 1.1-2009.

This part replaces GB/T 778.2-2007 "Measurement of water flow in closed full pipes. Drinking cold water meter and hot water meter. Part 2

Minute. Installation Requirements. The main technical content changes compared with GB/T 778.2-2007 are as follows.

- Modified standard name;
- Revised scope (see Chapter 1, Chapter 1 of GB/T 778.2-2007);
- Added the term "adapter" to "converter" (see 3.3, 3.4);
- Remove other conditions that should be considered when installing the water meter (see 6.2.21 of GB/T 778.2-2007);
- Increased the requirement that the plug-in water meter interface cannot use the adapter (see 7.2.8);
- Removed the contents of the "impact or vibration transmitted or caused by the water supply facility" in the protection of the water meter (see GB/T 778.2-2007)

8.3.3);

--- Removed the "stress and imbalance caused by water supply facilities" in the protection of water meters (see 8.3.5 of GB/T 778.2-2007);

--- Increased installation requirements for cartridge-mounted water meters (see 8.3.4);

--- Increased installation requirements for interchangeable metering water meters (see 8.3.5);

--- Removed the requirement of "fixed piping system" in personal safety (see 8.4.2 of GB/T 778.2-2007);

--- Revised the requirements for the quality of water meters in the requirements for the passage of large-scale water meters (see 8.5.1, GB/T 778.2-2007)

8.5.1).

This section uses the translation method equivalent to ISO 4064-5:2014 "Drinking cold water meters and hot water meters Part 5. Installation requirements".

The documents of our country that have a consistent correspondence with the international documents referenced in this part are as follows.

---GB/T 18660-2002 Measurement of the flow rate of conductive liquids in closed pipes - Methods of use of electromagnetic flowmeters (ISO 6817.

1992, IDT)

This part was proposed by the China Machinery Industry Federation.

This part is under the jurisdiction of the National Industrial Process Measurement Control and Automation Standardization Technical Committee (SAC/TC124).

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1 Scope

This part of GB/T 778 specifies the selection, installation and special requirements of water meters for single water meters, double water meters, coaxial water meters and connecting pipes.

Seek guidelines for the first use of new or improved water meters to ensure accurate and stable measurements and reliable readings.

This section applies to water meters that measure the volume of drinking cold water and hot water in a closed full pipe and are equipped with a cumulative flow indicating device.

This section applies to both water-based and mechanical-based water meters, as well as based on electrical or electronic principles and based on mechanical principles,

A water meter used to measure the volume of cold water and hot water. This section also applies to electronic aids. Usually the electronic aid is an option.

However, national or international regulations may determine certain auxiliary devices as necessary for the use of the water meter.

The recommendations in this section apply to water meters that are defined as integrated meters and that continuously measure the volume of water flowing through any technique.

Note. National regulations are higher than the provisions of this section.

2 Normative references

The following documents are indispensable for the application of this document. For dated references, only dated versions apply to this article.

Pieces. For undated references, the latest edition (including all amendments) applies to this document.

GB/T 778.1-2018 Drinking cold water meters and hot water meters - Part 1. Quantitative requirements and technical requirements (ISO 4064-1.

2014, IDT)

ISO 6817 Measurement of the flow rate of conductive liquids in closed pipes. Method of use of electromagnetic flowmeters (Measurement of

Conductive liquid flow in closed conduits-Method using electromagnetic flowmeters)

3 Terms and definitions

The following terms and definitions as defined in GB/T 778.1-2018 apply to this document.

3.1

Parallel operation in parallel

< Water Meter> Two or more water meters are connected to a common water source and a public water supply pipe.

3.2

Multi-table running multiplemeteroperation

The water inlets of several water meters are connected to a common water source, or the outlets are connected to a common water supply pipe (two

The situation does not exist at the same time).

3.3

Adapter adaptor

< Water meter> is used to connect the plug-in water meter with different geometrical and unmodified shapes to the connection interface of another geometric size.

A mechanical device mounted on the connection interface.

3.4

Converter converter

< Water Meter> A connection interface of a complete unit consisting of several components before being loaded into the water supply system.