

VEEARVESTID KÜLMALE JOOGIVEELE JA KUUMALE
VEELE. OSA 4: STANDARDIS ISO 4064-1 KÄSITLEMATA
MITTE-METROLOOGILISED NÕUDED

Water meters for cold potable water and hot water -
Part 4: Non-metrological requirements not covered in
ISO 4064-1 (ISO 4064-4:2024)

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>See Eesti standard EVS-EN ISO 4064-4:2025 sisaldab Euroopa standardi EN ISO 4064-4:2025 ingliskeelset teksti.</p> <p>Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.</p> <p>Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 08.01.2025.</p> <p>Standard on kättesaadav Eesti Standardimis- ja Akrediteerimiskeskusest.</p>	<p>This Estonian standard EVS-EN ISO 4064-4:2025 consists of the English text of the European standard EN ISO 4064-4:2025.</p> <p>This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation and Accreditation.</p> <p>Date of Availability of the European standard is 08.01.2025.</p> <p>The standard is available from the Estonian Centre for Standardisation and Accreditation.</p>
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EUROPEAN STANDARD

EN ISO 4064-4

NORME EUROPÉENNE

EUROPÄISCHE NORM

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Supersedes EN ISO 4064-4:2014

English Version

Water meters for cold potable water and hot water - Part 4: Non-metrological requirements not covered in ISO 4064-1 (ISO 4064-4:2024)

Compteurs d'eau potable froide et d'eau chaude -
Partie 4: Exigences non métrologiques non couvertes
par l'ISO 4064-1 (ISO 4064-4:2024)

Wasserzähler zum Messen von kaltem Trinkwasser
und heißem Wasser - Teil 4: Nichtmetrologische
Anforderungen, die nicht Gegenstand von ISO 4064-1
sind (ISO 4064-4:2024)

This European Standard was approved by CEN on 2 February 2024.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

European foreword

This document (EN ISO 4064-4:2025) has been prepared by Technical Committee ISO/TC 30 "Measurement of fluid flow in closed conduits" in collaboration with Technical Committee CEN/TC 92 "Water meters" the secretariat of which is held by SNV.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by July 2025, and conflicting national standards shall be withdrawn at the latest by July 2025.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN ISO 4064-4:2014.

Any feedback and questions on this document should be directed to the users' national standards body/national committee. A complete listing of these bodies can be found on the CEN website.

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and the United Kingdom.

Endorsement notice

The text of ISO 4064-4:2024 has been approved by CEN as EN ISO 4064-4:2025 without any modification.

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO document should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 30, *Measurement of fluid flow in closed conduits*, Subcommittee SC 7, *Volume methods including water meters* and OIML Technical Subcommittee TC 8/SC 5, *Water meters*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 92, *Water meters*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This second edition of ISO 4064-4 cancels and replaces the first edition (ISO 4064-4:2014), which has been technically revised.

The main changes are as follows:

- editorial and technical changes were done throughout the document.

A list of all parts in the ISO 4064 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Water meters for cold potable water and hot water —

Part 4: Non-metrological requirements not covered in ISO 4064-1

1 Scope

This document applies to water meters used to meter the volume of cold potable water and hot water flowing through a fully charged, closed conduit. These water meters incorporate devices which indicate the integrated volume.

This document specifies technical characteristics and pressure loss requirements for meters for cold potable water and hot water. It applies to water meters which can withstand:

- a) a maximum admissible pressure (MAP) equal to at least 1 MPa¹⁾ [0,6 MPa for meters for use with pipe nominal diameters (DNs) ≥ 500 mm];
- b) a maximum admissible temperature (MAT) for cold potable water meters of 30 °C;
- c) a MAT for hot water meters of up to 180 °C, depending on class.

In addition to meters based on mechanical principles, this document also applies to water meters based on electrical or electronic principles, and to water meters based on mechanical principles incorporating electronic devices, used to meter the volume flow of hot water and cold potable water. It also applies to electronic ancillary devices. As a rule ancillary devices are optional. However, national or international regulations may make some ancillary devices mandatory in relation to the utilization of the water meter.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 228-1, *Pipe threads where pressure-tight joints are not made on the threads — Part 1: Dimensions, tolerances and designation*

ISO 4064-1|OIML R 49-1, *Water meters for cold potable water and hot water — Part 1: Metrological and technical requirements*

ISO 7005-2, *Metallic flanges — Part 2: Cast iron flanges*

ISO 7005-3, *Metallic flanges — Part 3: Copper alloy and composite flanges*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 4064-1|OIML R 49-1 apply.

NOTE Many of the definitions used in this document conform to ISO/IEC Guide 99|OIML V 2-200^[2], OIML V 1^[3] and OIML D 11^[4].

1) 1 MPa = 10 bar (1 bar = 0,1 MPa = 10^5 Pa; 1 MPa = 1 N/mm²).