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de l'accréditation, de la sécurité et qualité
des produits et services

ILNAS-EN 12201-4:2024

Plastics piping systems for water supply, and for drains and sewers under pressure - Polyethylene (PE) - Part 4: Valves for water supply systems

Kunststoff-Rohrleitungssysteme für die
Wasserversorgung und für
Entwässerungs- und
Abwasserdruckleitungen - Polyethylen

Systèmes de canalisations en plastique
pour l'alimentation en eau et pour les
branchements et les collecteurs
d'assainissement avec pression -

01/2024



National Foreword

This European Standard EN 12201-4:2024 was adopted as Luxembourgish Standard ILNAS-EN 12201-4:2024.

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**Plastics piping systems for water supply, and for drains
and sewers under pressure - Polyethylene (PE) - Part 4:
Valves for water supply systems**

Systèmes de canalisations en plastique pour
l'alimentation en eau et pour les branchements et les
collecteurs d'assainissement avec pression -
Polyéthylène (PE) - Partie 4 : Robinets pour les
systèmes d'alimentation en eau

Kunststoff-Rohrleitungssysteme für die
Wasserversorgung und für Entwässerungs- und
Abwasserdruckleitungen - Polyethylen (PE) - Teil 4:
Armaturen für Wasserversorgungssysteme

This European Standard was approved by CEN on 10 December 2023.

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This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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

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European foreword

This document (EN 12201-4:2024) has been prepared by Technical Committee CEN/TC 155 “Plastics piping systems and ducting systems”, the secretariat of which is held by NEN.

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of an identical text or by endorsement, at the latest by July 2024, and conflicting national standards shall be withdrawn at the latest by July 2024.

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 12201-4:2012.

System Standards are based on the results of the work being undertaken in ISO/TC 138 “Plastics pipes, fittings and valves for the transport of fluids”, which is a Technical Committee of the International Organization for Standardization (ISO).

They are supported by separate standards on test methods to which references are made throughout the system Standard.

The System Standards are consistent with general standards on functional requirements and on recommended practice for installation.

EN 12201 consists of the following parts:

- EN 12201-1, *Plastics piping systems for water supply, and for drains and sewers under pressure — Polyethylene (PE) — Part 1: General*;
- EN 12201-2, *Plastics piping systems for water supply, and for drains and sewers under pressure — Polyethylene (PE) — Part 2: Pipes*;
- EN 12201-3, *Plastics piping systems for water supply, and for drains and sewers under pressure — Polyethylene (PE) — Part 3: Fittings*;
- EN 12201-4, *Plastics piping systems for water supply, and for drains and sewers under pressure — Polyethylene (PE) — Part 4: Valves for water supply systems* (this document);
- EN 12201-5, *Plastics piping systems for water supply, and for drains and sewers under pressure — Polyethylene (PE) — Part 5: Fitness for purpose of the system*.

In addition, the following document provides guidance on the assessment of conformity:

- CEN/TS 12201-7, *Plastics piping systems for water supply, and for drainage and sewerage under pressure — Polyethylene (PE) — Part 7: Guidance for the assessment of conformity*.

The revision of this System Standard has been carried out principally to add the PE 100-RC type materials with enhanced resistance to slow crack growth. EN 12201-1:2024, Annex C discusses the performance of this type of material and gives additional information for non-conventional installation techniques. The diameter range for valves has been increased to 400 mm. An improved description of the leaktightness test is given. Annex B has been added to describe the leaktightness test after the tensile test, following withdrawal of ISO 10933. In addition, test methods have been updated and a new method has been added for PE 100-RC materials.

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

According to the CEN-CENELEC Internal Regulations, the national standards organisations 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.

Introduction

This document, known as the System Standard, specifies the requirements for a piping system and its components made from polyethylene (PE). The piping system is intended to be used for water supply intended for human consumption, including the conveyance of raw water prior to treatment, drains and sewers under pressure, vacuum sewer systems, and water for other purposes.

In respect of potential adverse effects on the quality of water intended for human consumption, caused by the product covered by the EN 12201 series:

- this document provides no information as to whether the products may be used without restriction in any of the Member States of the EU or EFTA;

NOTE Attention is drawn to the presence of national regulations and testing arrangements in relation to products intended for use in water supply to ensure fitness for contact with drinking water.

Requirements and test methods for material and components, other than valves, are specified in EN 12201-1, EN 12201-2 and EN 12201-3.

Characteristics for fitness of purpose are covered in EN 12201-5. CEN/TS 12201-7 [1] gives guidance for the assessment of conformity.

This part of EN 12201 covers the characteristics of valves.