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**Plaströrssystem – Plaströr för vattendistribution, i mark och ovan jord för avlopp under tryck – (PVC-U) –
Del 3: Rördelar (ISO 1452-3:2009, corrected version 2010-03-01)**

**Plastics piping systems for water supply and for buried and above-ground drainage and sewerage under pressure –
Unplasticized poly(vinyl chloride) (PVC-U) –
Part 3: Fittings (ISO 1452-3:2009, corrected version 2010-03-01)**

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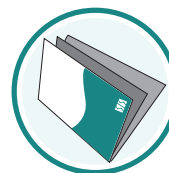
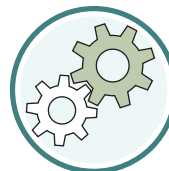
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Denna standard ersätter SS-EN ISO 1452-3:2009, utgåva 1.

The European Standard EN ISO 1452-3:2010 has the status of a Swedish Standard. This document contains the official English version of EN ISO 1452-3:2010.

This standard supersedes the Swedish Standard SS-EN ISO 1452-3:2009, edition 1.

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EUROPEAN STANDARD

EN ISO 1452-3

NORME EUROPÉENNE

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English Version

Plastics piping systems for water supply and for buried and
above-ground drainage and sewerage under pressure -
Unplasticized poly(vinyl chloride) (PVC-U) - Part 3: Fittings (ISO
1452-3:2009, corrected version 2010-03-01)

Systèmes de canalisations en plastique pour l'alimentation
en eau, pour branchements et collecteurs d'assainissement
enterrés et aériens avec pression - Poly(chlorure de vinyle)
non plastifié (PVC-U) - Partie 3: Raccords (ISO 1452-
3:2009, version corrigée 2010-03-01)

Kunststoff-Rohrleitungssysteme für die Wasserversorgung
und für erdverlegte und nicht erdverlegte Entwässerungs-
und Abwasserdruckleitungen - Weichmacherfreies
Polyvinylchlorid (PVC-U) - Teil 3: Formstücke (ISO 1452-
3:2009, korrigierte Fassung 2010-03-01)

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Foreword

The text of ISO 1452-3:2009, corrected version 2010-03-01 has been prepared by Technical Committee ISO/TC 138 "Plastics pipes, fittings and valves for the transport of fluids" of the International Organization for Standardization (ISO) and has been taken over as EN ISO 1452-3:2010 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 April 2011, and conflicting national standards shall be withdrawn at the latest by April 2011.

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Endorsement notice

The text of ISO 1452-3:2009, corrected version 2010-03-01 has been approved by CEN as a EN ISO 1452-3:2010 without any modification.

Introduction

The System Standard, of which this is Part 3, specifies the requirements for a piping system and its components made from unplasticized poly(vinyl chloride) (PVC-U). The piping system is intended to be used for water supply and for buried and above-ground drainage and sewerage under pressure.

In respect of potential adverse effects on the quality of water intended for human consumption, caused by the products covered by this part of ISO 1452, the following are relevant.

- a) This part of ISO 1452 provides no information as to whether the products may be used without restriction.
- b) Existing national regulations concerning the use and/or the characteristics of these products remain in force.

Requirements and test methods for material and components, other than fittings, are specified in ISO 1452-1, ISO 1452-2 and ISO 1452-4. Characteristics for fitness for purpose (mainly for joints) are established in ISO 1452-5.

This part of ISO 1452 specifies the characteristics of fittings.

Guidance for installation is given in ISO/TR 4191^[1].

Guidance for the assessment of conformity is provided in ENV 1452-7^[2].

For the convenience of users of this part of ISO 1452, marking on fittings and flanges according to withdrawn International Standards (e.g. ISO 4422-3:1996) may be considered valid for a period, e.g. up to three years from the date of publication of this part of ISO 1452.

Plastics piping systems for water supply and for buried and above-ground drainage and sewerage under pressure — Unplasticized poly(vinyl chloride) (PVC-U) —

Part 3: Fittings

1 Scope

This part of ISO 1452 specifies the characteristics of fittings made from unplasticized poly(vinyl chloride) (PVC-U) for piping systems intended for water supply and for buried and above-ground drainage and sewerage under pressure.

It also specifies the test parameters for the test methods referred to in this part of ISO 1452.

In conjunction with ISO 1452-1, ISO 1452-2 and ISO 1452-5, it is applicable to PVC-U fittings and to joints with components of PVC-U, other plastics and non-plastics materials intended to be used for the following:

- a) water mains and services buried in the ground;
- b) conveyance of water above ground for both outside and inside buildings;
- c) buried and above-ground drainage and sewerage under pressure.

It is applicable to fittings in piping systems intended for the supply of water under pressure up to and including 25 °C (cold water), intended for human consumption and for general purposes as well as for waste water under pressure.

This part of ISO 1452 is also applicable to components for the conveyance of water and waste water up to and including 45 °C. For temperatures between 25 °C and 45 °C, Figure A.1 of ISO 1452-2:2009 applies.

NOTE 1 The producer and the end-user can come to agreement on the possibilities of use for temperatures above 45 °C on a case-by-case basis.

Depending on the jointing method, this part of ISO 1452 is applicable to the following types of fittings:

- fittings for solvent cementing;
- elastomeric ring seal fittings.

PVC-U fittings can be manufactured by injection-moulding and/or be fabricated from pipe.

This part of ISO 1452 is also applicable to PVC-U flange adapters and to the corresponding flanges made from various materials.

This part of ISO 1452 covers a range of fitting sizes and pressure classes and gives requirements concerning colours.

NOTE 2 It is the responsibility of the purchaser or specifier to make the appropriate selections from these aspects, taking into account their particular requirements and any relevant national regulations and installation practices or codes.