



NSAI
Standards

Irish Standard Recommendation
S.R. CEN/TS 17176-3:2022

Plastics piping systems for water supply and for buried and above ground drainage, sewerage and irrigation under pressure - Oriented unplasticized poly(vinyl chloride) (PVC-O) - Part 3: Fittings

S.R. CEN/TS 17176-3:2022

Incorporating amendments/corrigenda/National Annexes issued since publication:

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National Foreword

S.R. CEN/TS 17176-3:2022 is the adopted Irish version of the European Document CEN/TS 17176-3:2022, Plastics piping systems for water supply and for buried and above ground drainage, sewerage and irrigation under pressure - Oriented unplasticized poly(vinyl chloride) (PVC-O) - Part 3: Fittings

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In line with international standards practice the decimal point is shown as a comma (,) throughout this document.

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TECHNICAL SPECIFICATION

CEN/TS 17176-3

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TECHNISCHE SPEZIFIKATION

April 2022

ICS 23.040.20; 23.040.45

Supersedes CEN/TS 17176-3:2019

English Version

Plastics piping systems for water supply and for buried
and above ground drainage, sewerage and irrigation under
pressure - Oriented unplasticized poly(vinyl chloride)
(PVC-O) - Part 3: Fittings

Systèmes de canalisations en plastique pour
l'alimentation en eau, les branchements et collecteurs
d'assainissement et les systèmes d'irrigation sous
pression, enterrés ou aériens - Poly(chlorure de vinyle)
non plastifié orienté (PVC-O) - Partie 3 : Raccords

Kunststoff-Rohrleitungssysteme für die
Wasserversorgung und für erdverlegte und nicht
erdverlegte Entwässerungs-, Abwasser- und
Bewässerungsdruckleitungen - Orientiertes
weichmacherfreies Polyvinylchlorid (PVC-O) - Teil 3:
Formstücke

This Technical Specification (CEN/TS) was approved by CEN on 13 March 2022 for provisional application.

The period of validity of this CEN/TS is limited initially to three years. After two years the members of CEN will be requested to submit their comments, particularly on the question whether the CEN/TS can be converted into a European Standard.

CEN members are required to announce the existence of this CEN/TS in the same way as for an EN and to make the CEN/TS available promptly at national level in an appropriate form. It is permissible to keep conflicting national standards in force (in parallel to the CEN/TS) until the final decision about the possible conversion of the CEN/TS into an EN is reached.

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CEN/TS 17176-3:2022 (E)

European foreword

This document (CEN/TS 17176-3:2022) has been prepared by Technical Committee CEN/TC 155 “Plastics piping systems and ducting systems”, the secretariat of which is held by NEN.

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 CEN/TS 17176-3:2019.

In comparison with the previous edition, the following modifications have been made:

- in Table 1 60 °C deleted;
- mistakes corrected in Table 2 and Annex B;
- additional information requests as in the B.5 Test report.

The revision of CEN/TS 17176-3:2019 is proposed to revise Annex B, in order to avoid misinterpretation and confusion in the market regarding reporting and use of the test results. In addition, mistakes identified in Table 2 are amended.

EN 17176 consists of the following parts, under the general title *Plastics piping systems for water supply and for buried and above ground drainage, sewerage and irrigation under pressure - Oriented unplasticized poly(vinyl chloride) (PVC-O)*:

- *Part 1: General*;
- *Part 2: Pipes*;
- *Part 3: Fittings* (this document);
- *Part 5: Fitness for purpose of the system*;
- *Part 7: Guidance for assessment of conformity* (in preparation).

For valves, see EN ISO 1452-4.

Guidance for installation is given in ISO/TR 4191 [3].

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 announce this Technical Specification: 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, Turkey and the United Kingdom.

Introduction

The System Standard, of which this is Part 3, specifies the requirements for a piping system made from oriented unplasticized poly(vinyl chloride) (PVC-O) pipes and its components. The piping system is intended to be used for water supply, pressurized drainage, sewerage, treated waste water and irrigation systems to be used underground or above ground where protected from direct sunlight.

In respect of potential adverse effects on the quality of water intended for human consumption, caused by the products covered by this document, the following is relevant:

- a) This document provides no information as to whether or not the products can 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 PVC-O material and components, other than fittings, are specified in EN 17176-1 and EN 17176-2. For other components (not manufactured from PVC-O) reference is made to the following standards: EN ISO 1452-3 (PVC-U) and EN 12842 (cast iron). Characteristics for fitness for purpose (mainly for joints) are specified in EN 17176-5.

This document specifies the characteristics of PVC-O fittings.

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