BRITISH STANDARD

BS EN ISO 15877-5:2003

Plastics piping systems for hot and cold water installations — Chlorinated poly(vinyl chloride) (PVC-C) —

Part 5: Fitness for purpose of the system

The European Standard EN ISO 15877-5:2003 has the status of a British Standard

ICS 23.040.01; 91.140.80

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Full document details: BS EN ISO 15877-5:2003

National foreword

This British Standard is the official English language version of EN ISO 15877-5:2003. It is identical with ISO 15877-5:2003.

The UK participation in its preparation was entrusted by Technical Committee PRI/88, Plastics piping systems, to Subcommittee PRI/88/2, Plastics piping systems for pressure applications, which has the responsibility to:

— aid enquirers to understand the text;

— present to the responsible international/European committee any enquiries on the interpretation, or proposals for change, and keep the UK interests informed;

— monitor related international and European developments and promulgate them in the UK.

A list of organizations represented on this subcommittee can be obtained on request to its secretary.

Additional information

The UK voted against the acceptance of this standard at the CEN Formal Vote principally because the BS EN ISO 15877 series of standards only includes Application class 1 and Application class 2 for hot and cold water distribution and no application classes for heating. It is emphasized that these products are not suitable for any type of heating applications.

PRI 88/2 will maintain BS 7291-1:2001[1], BS 7291-2:2001[2] and BS 7291-3:2001[3] and strongly recommends the continued use of polybutylene (PB) and cross-linked polyethylene (PE-X) piping systems certified to BS 7291-2 or BS 7291-3, Class S, for the following reasons.

a) The normal maximum operating cold water supply pressure in the UK is 12.5 bar[4] which some categories of piping systems in the BS EN ISO 15877 series of standards do not meet.

b) There is a disparity between the malfunction temperature quoted in BS EN ISO 15877-1, Table 1 (95 °C) and the malfunction temperatures applicable to boilers (110 °C) conforming to BS EN 297:1994[5], BS EN 483:2000[6] and BS EN 625:1996[7]. Consequently piping systems could be subjected to temperatures in service for which they have not been tested.

c) The unique and traditional practice in the UK is to use products certified to BS 7291-2 or BS 7291-3, Class S, for all applications, as defined in BS 7291-1. This is recognized in the national annex to BS EN 12828[8], which recommends the use of systems suitable for the maximum temperatures and pressures for their intended application specified in BS 7291-1.

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[1] BS 7291-1:2001, *Thermoplastics pipes and associated fittings for hot and cold water for domestic purposes and heating installations in buildings — Part 1: General requirements.*
[2] BS 7291-2:2001, *Thermoplastics pipes and associated fittings for hot and cold water for domestic purposes and heating installations in buildings — Part 2: Specification for polybutylene (PB) pipes and associated fittings.*
[3] BS 7291-3:2001, *Thermoplastics pipes and associated fittings for hot and cold water for domestic purposes and heating installations in buildings — Part 3: Specification for cross-linked polyethylene (PE-X) pipes and associated fittings.*
[4] 1 bar = 100 kPa.
[5] BS EN 297:1994, *Gas-fired central heating boilers — Type B_{11} and B_{11BS} boilers fitted with atmospheric burners of nominal heat input not exceeding 70 kW.*
[6] BS EN 483:2000, *Gas-fired central heating boilers — Type C boilers of nominal heat input not exceeding 70 kW.*
[7] BS EN 625:1996, *Gas-fired central heating boilers — Specific requirements for the domestic hot water operation of combination boilers of nominal heat input not exceeding 70 kW.*
[8] BS EN 12828, *Heating systems in buildings — Design for water-based heating systems.*

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Amendments issued since publication

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Updated versions of BS 7291-1, BS 7291-2 and BS 7291-3 are being prepared, which maintain these traditional UK operating conditions, and measures are being taken to address this issue in appropriate harmonized European Standards.

Cross-references

The British Standards which implement international or European publications referred to in this document may be found in the *BSI Catalogue* under the section entitled "International Standards Correspondence Index", or by using the "Search" facility of the *BSI Electronic Catalogue* or of British Standards Online.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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Summary of pages

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN ISO 15877-5

December 2003

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English version

Plastics piping systems for hot and cold water installations - Chlorinated poly(vinyl chloride) (PVC-C) - Part 5: Fitness for purpose of the system (ISO 15877-5:2003)

Systèmes de canalisations en plastique pour les installations d'eau chaude et froide - Poly(chlorure de vinyle) chloré(PVC-C) - Partie 5: Aptitude à l'emploi du système (ISO 15877-5:2003)

Kunststoff-Rohrleitungssysteme für die Warm- und Kaltwasserinstallation - Chloriertes Polyvinylchlorid (PVC-C) - Teil 5: Gebrauchstauglichkeit des Systems (ISO 15877-5:2003)

This European Standard was approved by CEN on 17 March 2003.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Management Centre or to any CEN member.

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 Management Centre has the same status as the official versions.

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