



BSI Standards Publication

Plastics piping systems for hot and cold water installations — Polybutene (PB)

Part 3: Fittings

National foreword

This British Standard is the UK implementation of EN ISO 15876-3:2017+A2:2021. It is identical to ISO 15876-3:2017, incorporating amendments 1:2020 and 2:2021. It supersedes BS EN ISO 15876-3:2017+A1:2020, which is withdrawn.

The start and finish of text introduced or altered by amendment is indicated in the text by tags. Tags indicating changes to ISO text carry the number of the ISO amendment. For example, text altered by ISO amendment 1 is indicated by **A1** **A1**.

The UK participation in its preparation was entrusted to Technical Committee PRI/88/2, Plastics piping for pressure applications.

A list of organizations represented on this committee can be obtained on request to its committee manager.

As the scope of this standard does not cover polybutene (PB) piping systems for installations having service conditions in excess of those in Table 1 of BS EN ISO 15876-1:2017, the UK committee advises users to consult BS 7291-1:2010+A1:2023 when applying this standard.

BS 7291-1:2010+A1:2023 gives the Class “S” service conditions for sealed central heating systems and indirect hot water primary circuits in which the maximum system service temperature is 105 °C and the system malfunction temperature is 114 °C. As both of these temperatures are significantly in excess of those specified in Table 1 of BS EN ISO 15876-1:2017, and sealed central heating systems and indirect hot water primary circuits are therefore not covered by it, the UK committee advises that PB piping systems conforming to the requirements of this standard should also be subjected to the temperatures given in Table 1 of BS 7291-1:2010+A1:2023.

The UK committee also advises users that:

- a) The normal maximum operating cold water supply pressure in the UK is 12.5 bar (1 bar = 100 kPa), which some categories of piping systems in the BS EN ISO 15876 series of standards do not meet.
- b) There is a disparity between the malfunction temperature quoted in Table 1 of BS EN ISO 15876-1:2017 (100 °C) and the malfunction temperatures applicable to boilers conforming to the requirements of BS EN 15502-1:2021+A1:2023, BS EN 15502-2-1:2022+A1:2023 and BS EN 15502-2-2:2014 (110 °C). Consequently, piping systems used with these gas-fired central heating boilers could be subjected to temperatures in service for which they have not been tested.
- c) Piping systems conforming to the requirements of the BS EN ISO 15876 series of standards are designed for hot and cold water installations and are not suitable for waste discharge from unvented hot water systems (i.e. downstream pipe D2).
- d) Continuously operated recirculating domestic hot water systems (known as recirculating, secondary hot circulation, return or ring main systems) carry pumped hot potable water to outlets where the temperature is between 60 °C and 70 °C, and is replenished by an incoming water supply to replace the water drawn to outlets. Piping systems conforming to the requirements of the BS EN ISO 15876 series of standards are not suitable for this use.

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Amendments/corrigenda issued since publication

Date	Text affected
31 January 2021	Implementation of ISO amendment 1:2020 with CEN endorsement A1:2020
31 March 2022	Implementation of ISO amendment 2:2021 with CEN endorsement A2:2021
30 June 2024	Correction to national foreword. Content of EN ISO 15876-3:2017+A2:2021 and ISO 15876-3:2017+A2:2021 consolidated

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EN ISO 15876-3:2017+A2

NORME EUROPÉENNE

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October 2021

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English Version

**Plastics piping systems for hot and cold water
installations - Polybutene (PB) - Part 3: Fittings (ISO
15876-3:2017)**

Systèmes de canalisations en plastique pour les
installations d'eau chaude et froide - Polybutène
(PB) - Partie 3: Raccords (ISO 15876-3:2017)

Kunststoff-Rohrleitungssysteme für die Warm-
und Kaltwasserinstallation - Polybuten (PB)
- Teil 3: Formstücke (ISO 15876-3:2017)

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European foreword

This document (EN ISO 15876-3:2017) has been prepared by Technical Committee ISO/TC 138 "Plastics pipes, fittings and valves for the transport of fluids" in collaboration with 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 August 2017, and conflicting national standards shall be withdrawn at the latest by August 2017.

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Endorsement notice

The text of ISO 15876-3:2017 has been approved by CEN as EN ISO 15876-3:2017 without any modification.

European foreword to amendment A1

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Endorsement notice

The text of ISO 15876-3:2017/Amd 1:2020 has been approved by CEN as EN ISO 15876-3:2017/A1:2020 without any modification.

European foreword to amendment A2

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Endorsement notice

The text of ISO 15876-3:2017/Amd 2:2021 has been approved by CEN as EN ISO 15876-3:2017/A2:2021 without any modification.

Contents

Page

Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions, symbols and abbreviated terms	2
3.1 General	2
3.2 Mechanical fittings	3
3.3 Fittings for fusion	3
3.4 Fitting with incorporated inserts	4
4 Material characteristics	4
4.1 Plastics fitting material	4
4.1.1 PB Fitting material identical to the PB pipe compound	4
4.1.2 PB fitting material not identical to the PB pipe compound	4
4.1.3 Plastics fitting material other than PB	5
4.2 Metallic fitting material	5
4.3 Influence on water intended for human consumption	5
5 General characteristics	5
5.1 Appearance	5
A2 5.1.1 Appearance of plastic fittings	5
5.1.2 Appearance of metal fittings A2	5
5.2 A2 Opacity of plastic fittings A2	6
6 Geometrical characteristics	6
6.1 General	6
6.1.1 Nominal diameter(s)	6
6.1.2 Angles	6
6.1.3 Threads	6
6.2 Dimensions of sockets for socket weld and electro-fusion fittings	6
6.2.1 Dimensions of socket fusion fittings (see Figure 1)	6
6.2.2 Dimensions of sockets for electrofusion fittings	8
A2 6.3 Dimensions of metallic fittings — Minimum wall thickness of fittings made of copper alloys A2	10
7 Mechanical characteristics of plastics fittings	10
7.1 General	10
7.2 Fitting material identical to the PB pipe compound	11
7.3 Fitting made from PB not identical to the PB pipe compound	11
7.4 Fitting made from plastics other than PB	11
8 A2 Physical and chemical characteristics of fittings	12
8.1 Physical and chemical characteristics of plastics fittings	12
8.2 Physical and chemical characteristics of metallic fittings	12
8.2.1 Fittings made of copper alloys — Resistance to stress corrosion	12
8.2.2 Fittings made of copper alloys — Resistance to dezincification A2	13
9 Sealing elements	13
10 Performance requirements	13
11 Marking	13
11.1 General requirements	13
11.2 Minimum required marking	14
11.3 Additional marking	14
A2 12 Fittings made from cast alloys — Tightness test	14
Annex A (normative) Dimensional requirements for metallic fittings — Minimum wall thickness of fittings made of copper alloys A2	15
Bibliography	17