

Multilayer piping systems for hot and cold water installations inside buildings —

Part 5: Fitness for purpose of the system

ICS 23.040.01; 91.140.60

National foreword

This British Standard is the UK implementation of EN ISO 21003-5:2008.

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

The UK Committee would like to emphasise that compliance with this British Standard does not necessarily mean that products are fit for non-potable hot water pipes.

The requirements contained in this standard are not necessarily indicative of all the performance requirements, or the suitability of pipework for the service conditions likely to be encountered in a particular pipework application in the UK. In particular:

- (i) The normal maximum operating cold water supply pressure in the UK is 12.5 bar, a pressure that some application classes of pipe in this standard do not meet.
- (ii) This standard does not specifically describe push-fit joints that are the predominant jointing method in the UK but defines mechanical fittings in general.
- (iii) There is a disparity between the malfunction temperature (100 °C) quoted in Table 1 of Part 1 of this standard and the malfunction temperatures applicable to boilers (110 °C) conforming to BS EN 297:1994, BS EN 483:2000 and BS EN 625:1996. Current UK practice can be found in BS 7291-1 which should be consulted when applying this standard. Pipe systems not conforming to BS 7291-1 could be subjected to temperatures in service for which they have not been tested.
- (iv) The unique and traditional practice in the UK is to use products certified to BS 7291 Class S for all applications, as defined in BS 7291-1. This is recognized in the National Annex to BS EN 12828 that requires the use of systems suitable for the maximum temperatures and pressures for their intended application specified in BS 7291-1.

This standard does not replace BS 7291 Parts 1, 2 and 3 (Class “S”) which contain detailed requirements for performance and contact with drinking water for pipes, fittings and joints manufactured from Polybutylene and PEX materials.

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Amendments/corrigenda issued since publication

Date	Comments