



ISO 15875-3

Plastics piping systems for hot and cold water installations — Crosslinked polyethylene (PE-X) —

Part 3: Fittings

*Systèmes de canalisations en plastique pour les installations
d'eau chaude et froide — Polyéthylène réticulé (PE-X) —*

Partie 3: Raccords

Second edition
2025-10

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This document was prepared by Technical Committee ISO/TC 138, *Plastics pipes, fittings and valves for the transport of fluids*, Subcommittee SC 2, *Plastics pipes and fittings for water supplies*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 155, *Plastics piping systems and ducting systems*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This second edition cancels and replaces the first edition (ISO 15875-3:2003), which has been technically revised. It also incorporates the Amendments ISO 15875-3:2003/Amd. 1:2020 and ISO 15875-3:2003/Amd. 2:2021.

- clarification has been added concerning plastics fitting body material not identical to PE-X due to a distinction between:
 - plastics fitting body material not identical to PE-X, but specified by other ISO documents;
 - plastics fitting body material not identical to PE-X and not specified by other ISO documents;
- a new clause for plastics material of auxiliary fittings parts subjected to mechanical stress in [5.2](#);
- a 2 500 h at 95 °C confirmation test has been introduced in [5.1.2](#), [5.1.3](#) and [5.1.4](#).

A list of all parts in the ISO 15875 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

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The ISO 15875 series specifies the requirements for a piping system consisting of pipe, fitting and the jointing made of it, when the pipe is made from crosslinked polyethylene (PE-X). The ISO 15875 series consists of ISO 15875-1, ISO 15875-2, ISO 15875-3 and ISO 15875-5, and covers the requirements and related test methods for all components used in the system (e. g. pipes and fittings). In addition, the ISO 15875 series includes requirements and related test methods to verify the performance and compatibility of the jointing of components.

The piping system is intended to be used for hot and cold water installations.

In respect of potential adverse effects on the quality of water intended for human consumption, caused by the product covered by the ISO 15875 series:

- the ISO 15875 series provides no information as to whether the product may be used without restriction in any of the Member States of the EU or EFTA;
- it should be noted that, while awaiting the adoption of verifiable European criteria, existing national regulations concerning the use and/or the characteristics of this product remain in force.

Requirements and test methods for materials and components, other than fittings, are specified in ISO 15875-1 and ISO 15875-2. Characteristics for fitness for purpose (mainly for joints) are covered in ISO 15875-5. ISO/TS 15875-7 gives guidance for the assessment of conformity.

This document specifies the characteristics of the fittings.

At the date of publication of this document, standards for piping systems of other plastics materials used for the same application include

- the ISO 15874 series,
- the ISO 15875 series,
- the ISO 15876 series,
- the ISO 15877 series,
- the ISO 21003 series, and
- the ISO 22391 series.