
Cevni sistemi iz polimernih materialov za oskrbo s plinastimi gorivi - Cevni sistemi iz nemehčanega poliamida (PA-U) z zvari in mehanskimi spoji - 3. del: Fitingi (ISO 16486-3:2020)

Plastics piping systems for the supply of gaseous fuels - Unplasticized polyamide (PA-U) piping systems with fusion jointing and mechanical jointing - Part 3: Fittings (ISO 16486-3:2020)

Kunststoff-Rohrleitungssysteme für die Gasversorgung - Rohrleitungssysteme aus weichmacherfreiem Polyamid (PA-U) mit Schweißverbindungen und mechanischen Verbindungen - Teil 3: Formstücke (ISO 16486-3:2020)

Systèmes de canalisations en matières plastiques pour la distribution de combustibles gazeux - Systèmes de canalisations en polyamide non plastifié (PA-U) avec assemblages par soudage et assemblages mécaniques - Partie 3: Raccords (ISO 16486-3:2020)

Ta slovenski standard je istoveten z: EN ISO 16486-3:2020

ICS:

75.200	Oprema za skladiščenje nafte, naftnih proizvodov in zemeljskega plina	Petroleum products and natural gas handling equipment
83.140.30	Polimerne cevi in fittingi za snovi, ki niso tekočine	Plastics pipes and fittings for non fluid use

SIST EN ISO 16486-3:2020**en**

EUROPEAN STANDARD

EN ISO 16486-3

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Plastics piping systems for the supply of gaseous fuels -
Unplasticized polyamide (PA-U) piping systems with
fusion jointing and mechanical jointing - Part 3: Fittings
(ISO 16486-3:2020)

Systèmes de canalisations en matières plastiques pour
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Kunststoff-Rohrleitungssysteme für die Gasversorgung
- Rohrleitungssysteme aus weichmacherfreiem
Polyamid (PA-U) mit Schweißverbindungen und
mechanischen Verbindungen - Teil 3: Formstücke
(ISO/FDIS 16486-3:2020)

This European Standard was approved by CEN on 21 September 2020.

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 CEN-CENELEC Management Centre or to any CEN member.

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European foreword

This document (EN ISO 16486-3:2020) 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 March 2021, and conflicting national standards shall be withdrawn at the latest by March 2021.

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.

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: 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.

Endorsement notice

The text of ISO 16486-3:2020 has been approved by CEN as EN ISO 16486-3:2020 without any modification.

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EN ISO 16486-3:2020 (E)

Annex (informative)

A-deviation

A-deviation: National deviation due to regulations, the alteration of which is for the time being outside the competence of the CEN-CENELEC national member.

This European Standard does not fall under any Directive of the EU.

In the relevant CEN-CENELEC countries these A-deviations are valid instead of the provisions of the European Standard until they have been removed.

Country	Clause	Deviation
ITALY	§1 Scope	<p>According to Italian legislation concerning the safety of gas installation</p> <ul style="list-style-type: none"> - DM 16 April 2008 (DSO) prescribes that piping and components used in distribution system shall be in accordance with national standard UNI 9034 (pipes with MOP below 5 bar). In case of MOP greater than 5 bar DM 17 April 2008 shall be followed. <p>(Official Journal Italian Republic GU n. 107 of 8th May 2008 https://www.gazzettaufficiale.it/eli/id/2008/05/08/08A02871/sg)</p> <ul style="list-style-type: none"> - DM 17 April 2008 (TSO) prescribes that piping and components used in transmission system shall be made of steel (art. 3.1 of Technical Annex A to Decree). <p>(Official Journal Italian Republic GU n. 107 of 8th May 2008 https://www.gazzettaufficiale.it/atto/serie_generale/caricaDettaglioAtto/originario?atto.dataPubblicazioneGazzetta=2008-05-08&atto.codiceRedazionale=08A02872&elenco30giorni=false)</p>

INTERNATIONAL
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**Plastics piping systems for the supply
of gaseous fuels — Unplasticized
polyamide (PA-U) piping systems
with fusion jointing and mechanical
jointing —****Part 3:
Fittings**

*Systèmes de canalisations en matières plastiques pour la distribution
de combustibles gazeux — Systèmes de canalisations en polyamide
non plastifié (PA-U) avec assemblages par soudage et assemblages
mécaniques —*

Partie 3: Raccords [SIST EN ISO 16486-3:2020](https://standards.iteh.ai/catalog/standards/sist/e9004d90-f262-4211-acb7-463471899138/sist-en-iso-16486-3-2020)

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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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 4, *Plastics pipes and fittings for the supply of gaseous fuels*, 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 16486-3:2012), which has been technically revised. It also incorporates ISO 16486-3:2012/Amd 1:2014.

The main changes compared to the previous edition are as follows:

- In subclause [5.7](#), text concerning the exceptional use of flange adaptors is added;
- In [Table 1](#), electro fusion socket length has been revised and the diameter range extended;
- [Tables 1](#) and [3](#) are extended with nominal outside diameters up to and including 630 mm;
- [Tables 3](#) to [5](#) have been reordered;
- An editorial mistake of 6 hours has been changed to 16 hours for conditioning before hydrostatic strength testing in [Table 4](#) and before internal pressure testing in [Table 5](#);
- A NOTE to [Table 6](#) and a footnote in [Table 7](#) have been added to explain the limited use of MVR;
- For transition fittings, the reference to ISO 17885 has been introduced;
- For Fusion system recognition, reference is made to ISO 13950 and ISO 12176-4 and ISO 12176-5¹⁾;
- The title of [Clause 12](#) has changed from "Packaging" to "Delivery conditions".

A list of all parts in the ISO 16486 series can also be found on the ISO website.

1) Under preparation. Stage at the time of publication: ISO/FDIS 12176-5:2020.