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| <b>STN</b> | <b>Potrubné systémy z plastov<br/>Armatúry z polyetylénu (PE)<br/>Skúška odolnosti proti ohybu medzi podperami</b> | <b>STN<br/>EN 12100</b><br><br>64 3081 |
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Plastics piping systems - Polyethylene (PE) valves - Test method for resistance to bending between supports

Táto norma obsahuje anglickú verziu európskej normy.

This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 06/25

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NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 12100**

March 2025

ICS 23.040.01

Supersedes EN 12100:1997

English Version

**Plastics piping systems - Polyethylene (PE) valves - Test  
method for resistance to bending between supports**

Systèmes de canalisations en plastiques - Robinets en  
polyéthylène (PE) - Méthode d'essai de résistance à la  
flexion entre supports

Kunststoff-Rohrleitungssysteme - Armaturen aus  
Polyethylen (PE) - Prüfverfahren für die Biegefestigkeit  
zwischen Auflagern

This European Standard was approved by CEN on 27 January 2025.

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EUROPEAN COMMITTEE FOR STANDARDIZATION  
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EUROPÄISCHES KOMITEE FÜR NORMUNG

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**EN 12100:2025 (E)**

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## **European foreword**

This document (EN 12100:2025) has been prepared by 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of an identical text or by endorsement, at the latest by September 2025, and conflicting national standards shall be withdrawn at the latest by September 2025.

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.

This document supersedes EN 12100:1997.

EN 12100:2025 includes the following significant technical changes with respect to EN 12100:1997:

- the possibility to apply this test method to materials other than PE has been included in the Scope;
- in Clause 8, the test procedure has been revised.

Any feedback and questions on this document should be directed to the users' national standards body. A complete listing of these bodies can be found on the CEN website.

According to the CEN-CENELEC Internal Regulations, the national standards organisations 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, Türkiye and the United Kingdom.

**EN 12100:2025 (E)****Introduction**

This document specifies the requirements for the test method for resistance to bending between supports of a valve made from polyethylene (PE) and which is intended to be used in pipelines for the transport of fluids.

## 1 Scope

This document specifies a test method for the resistance to bending of a test piece, made of a valve assembled together with two pipes and placed between supports, when subjected to internal pressure.

This document is applicable to valves with a polyethylene (PE) body for use with pipes having a nominal outside diameter from greater than 63 mm up to and including 400 mm and intended for the transport of fluids.

When specified in the product standard, this document can be applied to valves of material different than PE.

## 2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 837-1, *Pressure gauges — Part 1: Bourdon tube pressure gauges — Dimensions, metrology, requirements and testing*

EN ISO 7500-1, *Metallic materials — Calibration and verification of static uniaxial testing machines — Part 1: Tension/compression testing machines — Calibration and verification of the force-measuring system (ISO 7500-1)*

EN ISO 8233, *Thermoplastic valves — Torque — Test method (ISO 8233)*

ISO 9393-1, *Thermoplastics valves for industrial applications — Pressure test methods and requirements — Part 1: General*

**koniec náhľadu – text ďalej pokračuje v platenej verzii STN**