



**SLOVENSKI STANDARD**  
**SIST EN ISO 16135:2006/A1:2019**

**01-oktober-2019**

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**Industrijski ventili - Krogelni ventili iz plastomernih materialov - Dopolnilo A1 (ISO 16135:2006/Amd 1:2019)**

Industrial valves - Ball valves of thermoplastics materials - Amendment 1 (ISO 16135:2006/Amd 1:2019)

Industriearmaturen - Kugelhähne aus Thermoplasten - Änderung 1 (ISO 16135:2006/Amd 1:2019)

Robinetterie industrielle - Robinets à tournant sphérique en matériaux thermoplastiques - Amendement 1 (ISO 16135:2006/Amd 1:2019)

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**Ta slovenski standard je istoveten z: EN ISO 16135:2006/A1:2019**

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**ICS:**

23.060.20      Zapirni ventili (kroglasti in      Ball and plug valves  
pipe)

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EUROPEAN STANDARD

EN ISO 16135:2006/A1

NORME EUROPÉENNE

EUROPÄISCHE NORM

August 2019

ICS 23.060.20

English Version

## Industrial valves - Ball valves of thermoplastics materials - Amendment 1 (ISO 16135:2006/Amd 1:2019)

Robinetterie industrielle - Robinets à tournant  
sphérique en matériaux thermoplastiques -  
Amendement 1 (ISO 16135:2006/Amd 1:2019)

Industriearmaturen - Kugelhähne aus Thermoplasten -  
Änderung 1 (ISO 16135:2006/Amd 1:2019)

This amendment A1 modifies the European Standard EN ISO 16135:2006; it was approved by CEN on 21 June 2019.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for inclusion of this amendment into the relevant 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.

This amendment exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of 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 United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION  
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EUROPÄISCHES KOMITEE FÜR NORMUNG

**CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels**

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## European foreword

This document (EN ISO 16135:2006/A1:2019) 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 69 "Industrial valves" the secretariat of which is held by AFNOR.

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 February 2020, and conflicting national standards shall be withdrawn at the latest by February 2020.

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 has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

For the relationship with EU Directive(s), see informative Annex ZA, which is an integral part of this document.

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.

[SIST EN ISO 16135:2006/A1:2019](https://standards.iteh.ai/c/en/16135-2006-a1-2019)

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The text of ISO 16135:2006/Amd 1:2019 has been approved by CEN as EN ISO 16135:2006/A1:2019 without any modification.

## Annex ZA (informative)

### Relationship between this European Standard and the essential requirements of Directive 2014/68/EU (Pressure Equipment Directive) aimed to be covered

This European Standard has been prepared under a Commission's standardization request M/071 to provide one voluntary means of conforming to essential requirements of Directive 2014/68/EU of the European Parliament and of the Council of 15 May 2014 on the harmonisation of the laws of the Member States relating to the making available on the market of pressure equipment.

Once this standard is cited in the Official Journal of the European Union under that Directive, compliance with the normative clauses of this standard given in Table ZA.1 confers, within the limits of the scope of this standard, a presumption of conformity with the corresponding essential requirements of that Directive and associated EFTA regulations.

**Table ZA.1 — Correspondence between this European Standard and Annex I of Directive 2014/68/EU**

| Essential Requirements of Directive 2014/68/EU | Clause(s)/subclause(s) of this EN | Remarks/Notes                   |
|--|-----------------------------------|---------------------------------|
| 2.2.1  | 4.3                               | Design loading factors          |
| 2.2.2  | 4.6.1; 5.2.1; 5.2.2; 5.2.3; 5.2.5 | Design for adequate strength    |
| 2.7  | 4.8.1                             | Wear                            |
| 3.1.5  | 4.7.1                             | Traceability                    |
| 3.2.2  | 4.6.1; 4.6.3                      | Strength proof test             |
| 3.4  | 4.8.3                             | Operating instructions          |
| 4.1, 4.2 a)                                    | 4.2; 4.3                          | Materials for pressurised parts |

WARNING 1 — Presumption of conformity stays valid only as long as a reference to this European Standard is maintained in the list published in the Official Journal of the European Union. Users of this standard should consult frequently the latest list published in the Official Journal of the European Union.

WARNING 2 — Other Union legislation may be applicable to the product(s) falling within the scope of this standard.

INTERNATIONAL  
STANDARD

ISO  
16135

First edition  
2006-03-15

**AMENDMENT 1**  
2019-07

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**Industrial valves — Ball valves of  
thermoplastics materials**

**AMENDMENT 1**

*Robinetterie industrielle — Robinets à tournant sphérique en  
matériaux thermoplastiques*

*AMENDEMENT 1*

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Reference number  
ISO 16135:2006/Amd.1:2019(E)

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Published in Switzerland



## 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](http://www.iso.org/directives)).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see [www.iso.org/patents](http://www.iso.org/patents)).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see [www.iso.org/iso/foreword.html](http://www.iso.org/iso/foreword.html) ([standards.iteh.ai](http://standards.iteh.ai)).

This document was prepared by Technical Committee ISO/TC 138, *Plastics pipes, fittings and valves for the transport of fluids*, Subcommittee SC 7, *Valves and auxiliary equipment of plastics materials*.

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](http://www.iso.org/members.html).