STN	Priemyselné ventily. Oceľové guľové ventily.	STN EN 1983
		13 3532

Industrial valves - Steel ball valves

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. 12/13

Obsahuje: EN 1983:2013

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EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

EN 1983

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ICS 23.060.20

Supersedes EN 1983:2006

English Version

Industrial valves - Steel ball valves

Robinetterie industrielle - Robinets à tournant sphérique en acier

Industriearmaturen - Kugelhähne aus Stahl

This European Standard was approved by CEN on 25 July 2013.

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.

This European Standard 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, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION COMITÉ EUROPÉEN DE NORMALISATION EUROPÄISCHES KOMITEE FÜR NORMUNG

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Foreword

This document (EN 1983:2013) has been prepared by 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of an identical text or by endorsement, at the latest by February 2014, and conflicting national standards shall be withdrawn at the latest by February 2014.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] 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 relationship with EU Directive(s), see informative Annex ZA, which is an integral part of this document.

This document supersedes EN 1983:2006.

The most significant changes with respect to the previous version are the following:

- the normative references have been updated in Clause 2 and throughout the text;
- a reference to EN 13445-3 was added in 4.1.1.3 (design of the body) and in 4.2.1 (shell design strength);
- the compulsory markings in 8.1 were updated.

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, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

1 Scope

This European Standard specifies requirements for industrial steel ball valves having flanged, threaded, socket welding or butt welding ends.

The DN range is:

DN 4; DN 6; DN 8; DN 10; DN 15; DN 20; DN 25; DN 32; DN 40; DN 50; DN 65; DN 80; DN 100;
 DN 125; DN 150; DN 200; DN 250; DN 300; DN 350; DN 400; DN 450; DN 500; DN 550; DN 600;
 DN 650; DN 700; DN 750; DN 800; DN 850; DN 900.

The PN and Class ranges are:

- PN 6; PN 10; PN 16; PN 25; PN 40; PN 63; PN 100;
- Class 150 ; Class 300 ; Class 600 ; Class 900 ; Class 1 500 ; Class 2 500 ; Class 4 500.

This European Standard applies to steel ball valves mainly used for industrial and general purpose applications. However, they can be used for other applications provided the requirements of the relevant performance standard are met.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 19:2002, Industrial valves — Marking of metallic valves

EN 558, Industrial valves — Face-to-face and centre-to-face dimensions of metal valves for use in flanged pipe systems — PN and Class designated valves

EN 736-1:1995, Valves — Terminology — Part 1: Definition of types of valves

EN 736-2:1997, Valves — Terminology — Part 2: Definition of components of valves

EN 736-3:2008, Valves — Terminology — Part 3: Definition of terms

EN 1092-1, Flanges and their joints — Circular flanges for pipes, valves, fittings and accessories, PN designated — Part 1: Steel flanges

EN 1503-1, Valves — Materials for bodies, bonnets and covers — Part 1: Steels specified in European Standards

EN 1503-2, Valves — Materials for bodies, bonnets and covers — Part 2: Steels other than those specified in European Standards

EN 1515-1, Flanges and their joints — Bolting — Part 1: Selection of bolting

EN 1515-2, Flanges and their joints — Bolting — Part 2: Classification of bolt materials for steel flanges, PN designated

EN 1759-1, Flanges and their joint — Circular flanges for pipes, valves, fittings and accessories, Class designated — Part 1: Steel flanges, NPS 1/2 to 24

EN 12266-1, Industrial valves — Testing of metallic valves — Part 1: Pressure tests, test procedures and acceptance criteria — Mandatory requirements

EN 12266-2:2012, Industrial valves — Testing of metallic valves — Part 2: Tests, test procedures and acceptance criteria — Supplementary requirements

EN 12516-1:2005, 1) Industrial valves — Shell design strength — Part 1: Tabulation method for steel valve shells

EN 12516-2:2004, Industrial valves — Shell design strength — Part 2: Calculation method for steel valve shells

EN 12516-3:2002, Valves — Shell design strength — Part 3: Experimental method

EN 12570, Industrial valves — Method for sizing the operating element

EN 12627, Industrial valves — Butt welding ends for steel valves

EN 12760, Valves — Socket welding ends for steel valves

EN 12982:2009, Industrial valves — End-to-end and centre-to-end dimensions for butt welding end valves

EN 13445-3:2009,²⁾ Unfired pressure vessels — Part 3: Design

EN ISO 228-1, Pipe threads where pressure-tight joints are not made on the threads — Part 1: Dimensions, tolerances and designation (ISO 228-1)

EN ISO 5211, Industrial valves — Part-turn valve actuator attachments (ISO 5211)

EN ISO 10497:2010, Testing of valves — Fire type-testing requirements (ISO 10497:2010)

ISO 7-1, Pipe threads where pressure-tight joints are made on the threads — Part 1: Dimensions, tolerances and designation

ASME B1.20.1, Pipe Threads, General Purpose (Inch)

ASME B16.34, Valves — Flanged Threaded, and Welding End

koniec náhľadu – text ďalej pokračuje v platenej verzii STN

¹⁾ EN 12516-1:2005 is impacted by the corrigendum EN 12516-1:2005/AC:2007.

²⁾ EN 13445-3:2009 is impacted by the stand-alone amendment EN 13445-3:2009/A1:2012.