



**NSAI**  
Standards

Irish Standard  
I.S. EN 1983:2013

# Industrial valves - Steel ball valves

## I.S. EN 1983:2013

*Incorporating amendments/corrigenda/National Annexes issued since publication:*

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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.

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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of an identical text or by endorsement, at the latest by February 2014, and conflicting national standards shall be withdrawn at the latest by February 2014.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*

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