



**SLOVENSKI STANDARD**  
**SIST EN IEC 60534-1:2023**

**01-november-2023**

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**Regulacijski ventili za industrijske procese - 1. del: Terminologija za regulacijske ventile in splošni vidiki (IEC 60534-1:2023)**

Industrial-process control valves - Part 1: Control valve terminology and general considerations (IEC 60534-1:2023)

Stellventile für die Prozessregelung - Teil 1: Begriffe und allgemeine Betrachtungen (IEC 60534-1:2023)

Vannes de régulation des processus industriels - Partie 1: Terminologie des vannes de régulation et considérations générales (IEC 60534-1:2023)

**Ta slovenski standard je istoveten z: EN IEC 60534-1:2023**

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**ICS:**

23.060.40	Tlačni regulatorji	Pressure regulators
25.040.40	Merjenje in krmiljenje industrijskih postopkov	Industrial process measurement and control

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**EN IEC 60534-1**

June 2023

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English Version

**Industrial-process control valves - Part 1: Control valve  
terminology and general considerations  
(IEC 60534-1:2023)**

Vannes de régulation des processus industriels - Partie 1:  
Terminologie des vannes de régulation et considérations  
générales  
(IEC 60534-1:2023)

Stellventile für die Prozessregelung - Teil 1: Begriffe und  
allgemeine Betrachtungen  
(IEC 60534-1:2023)

This European Standard was approved by CENELEC on 2023-06-27. CENELEC 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.

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European Committee for Electrotechnical Standardization  
Comité Européen de Normalisation Electrotechnique  
Europäisches Komitee für Elektrotechnische Normung

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

**EN IEC 60534-1:2023 (E)****European foreword**

The text of document 65B/1228/FDIS, future edition 4 of IEC 60534-1, prepared by SC 65B "Measurement and control devices" of IEC/TC 65 "Industrial-process measurement, control and automation" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 60534-1:2023.

The following dates are fixed:

- latest date by which the document has to be implemented at national (dop) 2024-03-27 level by publication of an identical national standard or by endorsement
- latest date by which the national standards conflicting with the (dow) 2026-06-27 document have to be withdrawn

This document supersedes EN 60534-1:2005 and all of its amendments and corrigenda (if any).

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**Endorsement notice**

The text of the International Standard IEC 60534-1:2023 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following notes have to be added for the standard indicated:

IEC 61987-21:2015 NOTE Approved as EN 61987-21:2016 (not modified)

ISO 6708:1995 NOTE Approved as EN ISO 6708:1995 (not modified)

## Annex ZA (normative)

### Normative references to international publications with their corresponding European publications

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.

NOTE 1 Where an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: [www.cencenelec.eu](http://www.cencenelec.eu).

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60534	series	Industrial-process control valves	-	-

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IEC 60534-1

Edition 4.0 2023-05

# INTERNATIONAL STANDARD

# NORME INTERNATIONALE

**Industrial-process control valves –  
Part 1: Control valve terminology and general considerations**

**Vannes de régulation des processus industriels –  
Partie 1: Terminologie des vannes de régulation et considérations générales**

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**INDUSTRIAL-PROCESS CONTROL VALVES –****Part 1: Control valve terminology and general considerations**

## FOREWORD

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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IEC 60534-1 has been prepared by subcommittee 65B: Measurement and control devices, of IEC technical committee 65: Industrial-process measurement, control and automation. It is an International Standard.

This fourth edition cancels and replaces the third edition published in 2005. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- a) update of the definitions given in IEC 60534-1 in order to harmonize them with current terminology;
- b) addition of terms common to individual standards in the 60534 series; and
- c) further clarification in existing definitions.

The text of this standard is based on the following documents:

Draft	Report on voting
65B/1228/FDIS	65B/1235/RVD

Full information on the voting for its approval can be found in the report on voting indicated in the above table.

The language used for the development of this International Standard is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at [www.iec.ch/members\\_experts/refdocs](http://www.iec.ch/members_experts/refdocs). The main document types developed by IEC are described in greater detail at [www.iec.ch/publications](http://www.iec.ch/publications).

IEC 60534 consists of the following parts, under the general title *Industrial-process control valves*:

- Part 1: *Control valve terminology and general considerations*
- Part 2-1: *Flow capacity – Sizing equations for fluid flow under installed conditions*
- Part 2-3: *Flow capacity – Test procedures*
- Part 2-4: *Flow capacity – Section Four: Inherent flow characteristics and rangeability*
- Part 3-1: *Dimensions – Face-to-face dimensions for flanged, two-way, globe-type, straight pattern and centre-to-face dimensions for flanged, two-way, globe-type, angle pattern control valves*
- Part 3-2: *Dimensions – Face-to-face dimensions for rotary control valves except butterfly valves*
- Part 3-3: *Dimensions – End-to-end dimensions for butt-weld, two-way, globe-type, straight pattern control valves*
- Part 4: *Inspection and routine testing*
- Part 5: *Marking*
- Part 6-1: *Mounting details for attachment of positioners to control valves – Section 1: Positioner mounting on linear actuators*
- Part 6-2: *Mounting details for attachment of positioners to control valves – Positioner mounting on rotary actuators*
- Part 7: *Control valve data sheet*
- Part 8-1: *Noise considerations – Section One: Laboratory measurement of noise generated by aerodynamic flow through control valves*
- Part 8-2: *Noise considerations – Section 2: Laboratory measurement of noise generated by hydrodynamic flow through control valves*
- Part 8-3: *Noise considerations – Control valve aerodynamic noise prediction method*
- Part 8-4: *Noise considerations – Section 4: Prediction of noise generated by hydrodynamic flow*
- Part 9: *Test procedure for response measurements from step inputs*