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Industrial-process control valves - Part 4: Inspection and routine testing

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. 03/22

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English Version

**Industrial-process control valves - Part 4: Inspection and routine
testing
(IEC 60534-4:2021)**Vannes de régulation des processus industriels - Partie 4:
Inspection et essais individuels de série
(IEC 60534-4:2021)Stellventile für die Prozessregelung - Teil 4: Abnahme und
Prüfungen
(IEC 60534-4:2021)

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EN IEC 60534-4:2022 (E)**European foreword**

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IEC 61298 (series) NOTE Harmonized as EN 61298 (series)

ISO 15848-2 NOTE Harmonized as EN ISO 15848-2

Annex ZA (normative)

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NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: www.cenelec.eu.

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



IEC 60534-4

Edition 4.0 2021-12

INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Industrial-process control valves –
Part 4: Inspection and routine testing**

**Vannes de régulation des processus industriels –
Partie 4: Inspection et essais individuels de série**





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IEC 60534-4

Edition 4.0 2021-12

INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Industrial-process control valves –
Part 4: Inspection and routine testing**

**Vannes de régulation des processus industriels –
Partie 4: Inspection et essais individuels de série**

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

INDUSTRIAL-PROCESS CONTROL VALVES –

Part 4: Inspection and routine testing

FOREWORD

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IEC 60534-4 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 2006. This edition constitutes a technical revision.

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

- a) remove details about hydrostatic test but state that to be performed according to valve design code;
- b) include mandatory test for valve packing;
- c) put in evidence limits of reduced differential pressure seat leakage test procedure;
- d) introduce details about low temperature seat leakage test;
- e) extend dimensional range for leakage class VI to less than 25 mm and over 400 mm seat diameter;

f) include stroking time tests.

The text of this International Standard is based on the following documents:

Draft	Report on voting
65B/1208/FDIS	65B/1211/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. The main document types developed by IEC are described in greater detail at www.iec.ch/standardsdev/publications.

A list of all parts in the IEC 60534 series, published under the general title *Industrial-process control valves*, can be found on the IEC website.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under webstore.iec.ch in the data related to the specific document. At this date, the document will be

- reconfirmed,
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- amended.

INDUSTRIAL-PROCESS CONTROL VALVES –

Part 4: Inspection and routine testing

1 Scope

This part of IEC 60534 specifies the requirements for the inspection and routine testing of control valves manufactured in conformity with the other parts of IEC 60534.

This document is applicable to valves with pressure ratings not exceeding Class 2500. The requirements for actuators apply only to pneumatic actuators.

This document does not apply to the types of control valves where radioactive service, fire safety testing, or other hazardous service conditions are encountered. If a standard for hazardous service conflicts with the requirements of this document, the standard for hazardous service should take precedence.

NOTE This document can be extended to higher pressure ratings by agreement between the purchaser and the manufacturer.

2 Normative references

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IEC 60534 (all parts), *Industrial-process control valves*

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