



# INTERNATIONAL STANDARD

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**Industrial-process control valves –  
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**

INTERNATIONAL  
ELECTROTECHNICAL  
COMMISSION

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

### INDUSTRIAL-PROCESS CONTROL VALVES –

#### **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**

#### FOREWORD

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International Standard IEC 60534-3-1 has been prepared by subcommittee 65B: Measurement and control devices, of IEC technical committee 65: Industrial-process measurement, control and automation.

This second edition cancels and replaces the first edition published in 2000. This edition constitutes a technical revision.

The main changes with respect to the previous edition are listed below:

- this document has been extended to cover face-to-face dimensions and centre-to-face dimensions for control valves PN 160 and PN 250 (Class 900 and 1 500);
- definitions of end-to-end dimensions and centre-to-end dimensions have been added for valves with flange facings where the gasket contact surfaces are not located at the extreme ends of the valve;

- Table 5 of adjustment value “X” for end-to-end dimensions of straight pattern valves with ring joint ends has been added;
- ANSI/ISA references have been added in Tables 1 to 4;
- ANSI/ISA references have been added in the bibliography.

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

FDIS	Report on voting
65B/1142/FDIS	65B/1146/RVD

Full information on the voting for the approval of this International Standard can be found in the report on voting indicated in the above table.

This document has been drafted in accordance with the ISO/IEC Directives, Part 2.

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

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

A bilingual version of this publication may be issued at a later date.

## INDUSTRIAL-PROCESS CONTROL VALVES –

### **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**

#### **1 Scope**

This part of IEC 60534 specifies face-to-face (FTF) and centre-to-face (CTF) dimensions for given nominal sizes and pressure ratings of flanged, two-way, globe-type, straight pattern and angle pattern control valves. The nominal sizes included are DN 15 to DN 400 for straight pattern control valves and DN 15 to DN 400 for angle pattern control valves.

#### **2 Normative references**

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.

IEC 60534-1, *Industrial-process control valves – Part 1: Control valve terminology and general considerations*