

Irish Standard I.S. EN 60534-7:2010

Industrial-process control valves -- Part 7: Control valve data sheet (IEC 60534 -7:2010 (EQV))

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EUROPEAN STANDARD

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English version

Industrial-process control valves - Part 7: Control valve data sheet

(IEC 60534-7:2010)

Vannes de régulation des processus industriels - Partie 7: Grille de définition de vanne de régulation (CEI 60534-7:2010)

Stellventile für die Prozessregelung -Teil 7: Datenblatt für Stellventile (IEC 60534-7:2010)

This European Standard was approved by CENELEC on 2010-12-01. 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.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CENELEC 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 CENELEC member into its own language and notified to the Central Secretariat has the same status as the official versions.

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CENELEC

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

Management Centre: Avenue Marnix 17, B - 1000 Brussels

EN 60534-7:2010

Foreword

- 2 -

The text of document 65B/756/FDIS, future edition 2 of IEC 60534-7, prepared by SC 65B, Devices & process analysis, of IEC TC 65, Industrial-process measurement, control and automation, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 60534-7 on 2010-12-01.

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The following dates were fixed:

 latest date by which the EN has to be implemented at national level by publication of an identical national standard or by endorsement

(dop) 2011-09-01

 latest date by which the national standards conflicting with the EN have to be withdrawn

(dow) 2013-12-01

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 60534-7:2010 was approved by CENELEC as a European Standard without any modification.

EN 60534-7:2010

Annex ZA (normative)

Normative references to international publications with their corresponding European publications

The following referenced documents are indispensable for the application 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 When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	EN/HD	<u>Year</u>
IEC 60529	2001	Degrees of protection provided by enclosures (IP Code)	-	-
IEC 60534	Series	Industrial-process control valves	EN 60534	Series
IEC 60534-1	2005	Industrial-process control valves - Part 1: Control valve terminology and general considerations	EN 60534-1	2005
IEC 60534-2-1	1998	Industrial-process control valves - Part 2-1: Flow capacity - Sizing equations for fluid flow under installed conditions	EN 60534-2-1	1998
IEC 60534-2-4	2009	Industrial-process control valves - Part 2-4: Flow capacity - Inherent flow characteristics and rangeability	EN 60534-2-4	2009
IEC 60534-2-5	2003	Industrial-process control valves - Part 2-5: Flow capacity - Sizing equations for fluid flow through multistage control valves with interstage recovery	EN 60534-2-5	2003
IEC 60534-3-1	2000	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		2000 2000
IEC 60534-3-2	2001	Industrial-process control valves - Part 3-2: Dimensions - Face-to-face dimensions for rotary control valves except butterfly valves	EN 60534-3-2	2001
IEC 60534-3-3	1998	Industrial-process control valves - Part 3-3: Dimensions - End-to-end dimensions for buttweld, two-way, globe-type, straight pattern control valves	EN 60534-3-3 s	1998
IEC 60534-4	2006	Industrial process control valves - Part 4: Inspection and routine testing	EN 60534-4	2006
IEC 60534-5	2004	Industrial-process control valves - Part 5: Marking	EN 60534-5	2004

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I.S. EN 60534-7:2010

EN 60534-7:2010

- 4 -

<u>Publication</u>	<u>Year</u>	<u>Title</u>	EN/HD	<u>Year</u>
IEC 60534-8-1	2005	Industrial-process control valves - Part 8-1: Noise considerations - Laboratory measurement of noise generated by aerodynamic flow through control valves	EN 60534-8-1	2005
IEC 60534-8-3	2000	Industrial-process control valves - Part 8-3: Noise considerations - Control valve aerodynamic noise prediction method	EN 60534-8-3	2000
IEC 60534-8-4	2005	Industrial-process control valves - Part 8-4: Noise considerations - Prediction of noise generated by hydrodynamic flow	EN 60534-8-4	2005

- 2 -

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CONTENTS

FO	REWO	DRD	3				
INT	ROD	UCTION	5				
1	Scope						
2	Norm	native references	6				
3	Terms and definitions						
4	Appli	cation	7				
	4.1	General	7				
	4.2	Preliminary valve specification	7				
	4.3	Inquiry valve specification	7				
	4.4	Order valve specification	7				
5	Gene	eral requirements sheet	7				
	5.1	Purpose of the general requirements sheet	7				
	5.2	Alternate location for data sheet items	8				
	5.3	Items to be considered for inclusion in general requirements	8				
6	Prep	aration of data sheet (see Figure 1)	8				
	6.1	Identification blocks	8				
	6.2	Explanation of numbered columns	8				
	6.3	Instructions for numbered lines	9				
Bibl	iogra	phy	. 17				
Figi	ure 1	– Control valve data sheet	. 14				
Figi	ure 2	- General requirements sheet	. 15				
Figi	ure 3	- Supplementary general requirements sheets	. 16				

60534-7 © IEC:2010

- 3 -

INTERNATIONAL ELECTROTECHNICAL COMMISSION

INDUSTRIAL-PROCESS CONTROL VALVES -

Part 7: Control valve data sheet

FOREWORD

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International Standard IEC 60534-7 has been prepared by subcommittee 65B: Devices and process analysis, of IEC technical committee 65: Industrial-process measurement, control and automation.

This second edition cancels and replaces the first edition published in 1989. This edition constitutes a technical revision.

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

- the standard has been updated to reflect digital electronic accessories and fieldbus protocols;
- to aid clarification, the explanation of terms and definitions contains the same subheading as the information required in the control valve data sheet;
- the column numbering system has been replaced with descriptive title headings.

-4-

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

FDIS	Report on voting
65B/756/FDIS	65B/771/RVD

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

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

A list of all parts of 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 publication will remain unchanged until the stability date indicated on the IEC web site under "http://webstore.iec.ch" in the data related to the specific publication. At this date, the publication will be

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

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- 5 -

INTRODUCTION

The writing of control valve specifications is an extremely important segment of the complete design, purchase and manufacturing of any process control system.

If the wrong control valve is specified, due to either incomplete or erroneous specification, the replacement of that valve becomes costly to both the user and the control valve manufacturer and often results in undue project delay. Therefore, many of the important control valve users and contractors have developed their own standard data sheets to eliminate as much misunderstanding as possible regarding the valve specifications.

To avoid confusion between valve manufacturers, users and contractors, standardisation of the datasheet is required.

The purpose of a standard control valve data sheet is to promote uniformity, both in content and form. General use of this form by contractors, users and manufacturers offers many advantages. For example:

- assisting in preparation of a complete specification by listing and providing space for all principal descriptive options;
- promoting uniform terminology;
- facilitates quoting, purchasing, receiving, accounting and ordering procedures by uniform display of information;
- providing a useful permanent record and information for checking;
- improving efficiency from initial concept to the final installation.



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