



National Standards Authority of Ireland

IRISH STANDARD

I.S. EN 60534-8-1:2005

ICS 23.060.40
17.140.20
25.040.40

INDUSTRIAL-PROCESS CONTROL VALVES
-- PART 8-1: NOISE CONSIDERATIONS -
LABORATORY MEASUREMENT OF NOISE
GENERATED BY AERODYNAMIC FLOW
THROUGH CONTROL VALVES

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*This Irish Standard was
published under the
authority of the National
Standards Authority of
Ireland and comes into
effect on:
December 16, 2005*

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EUROPEAN STANDARD

EN 60534-8-1

NORME EUROPÉENNE

EUROPÄISCHE NORM

November 2005

ICS 23.060.40; 17.140.20; 25.040.40

Supersedes EN 60534-8-1:2000

English version

**Industrial-process control valves
Part 8-1: Noise considerations -
Laboratory measurement of noise
generated by aerodynamic flow
through control valves
(IEC 60534-8-1:2005)**

Vannes de régulation des processus
industriels
Partie 8-1: Considérations sur le bruit -
Mesure en laboratoire du bruit créé
par un débit aérodynamique
à travers une vanne de régulation
(CEI 60534-8-1:2005)

Stellventile für die Prozessregelung
Teil 8-1: Geräuschbetrachtungen -
Laboratoriumsmessungen von
Geräuschen bei gasdurchströmten
Stellventilen
(IEC 60534-8-1:2005)

This European Standard was approved by CENELEC on 2005-09-01. 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.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

CENELEC

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

Central Secretariat: rue de Stassart 35, B - 1050 Brussels

Foreword

The text of document 65B/558/FDIS, future edition 2 of IEC 60534-8-1, prepared by SC 65B, Devices, of IEC TC 65, Industrial-process measurement and control, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 60534-8-1 on 2005-09-01.

This European Standard supersedes EN 60534-8-1:2000.

This standard has been revised to obtain consistency in describing the methods for measuring internal and external sound pressure measurements and to update the description of the instrumentation from analog to digital.

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) | 2006-07-01 |
| – latest date by which the national standards conflicting
with the EN have to be withdrawn | (dow) | 2008-09-01 |

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 60534-8-1:2005 was approved by CENELEC as a European Standard without any modification.

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 Where 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>	<u>EN/HD</u>	<u>Year</u>
IEC 60534	Series	Industrial-process control valves	EN 60534	Series
IEC 60534-1	- ¹⁾	Part 1: Control valve terminology and general considerations	EN 60534-1	2005 ²⁾
IEC 60534-2-3	- ¹⁾	Part 2-3: Flow capacity - Test procedures	EN 60534-2-3	1998 ²⁾
IEC 60534-8-3	- ¹⁾	Part 8-3: Noise considerations - Control valve aerodynamic noise prediction method	EN 60534-8-3	2000 ²⁾
IEC 61260	- ¹⁾	Electroacoustics - Octave-band and fractional-octave-band filters	EN 61260	1995 ²⁾
IEC 61672-1	2002	Electroacoustics - Sound level meters Part 1: Specifications	EN 61672-1	2003
ISO 3744	1994	Acoustics - Determination of sound power levels of noise sources using sound pressure - Engineering method in an essentially free field over a reflecting plane	EN ISO 3744	1995
ISO 3745	2003	Acoustics - Determination of sound power levels of noise sources using sound pressure - Precision methods for anechoic and hemi-anechoic rooms	EN ISO 3745	2003

¹⁾ Undated reference.

²⁾ Valid edition at date of issue.

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