



**SLOVENSKI STANDARD**  
**SIST EN ISO 20361:2009**  
**01-junij-2009**

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**SIST EN 12639:2001**  
**SIST EN 12639:2001/AC:2002**  
**SIST EN 12639:2001/AC:2004**

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Liquid pumps and pump units - Noise test code - Grades 2 and 3 of accuracy (ISO 20361:2007)

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 Pompes et groupes motopompes pour liquides - Code d'essai acoustique - Classes de précision 2 et 3 (ISO 20361:2007)

**Ta slovenski standard je istoveten z: EN ISO 20361:2009**

**ICS:**

17.140.20	Emisija hrupa naprav in opreme	Noise emitted by machines and equipment
23.080	!j æ\ ^	Pumps

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN ISO 20361**

April 2009

ICS 17.140.20; 23.080

Supersedes EN 12639:2000

English Version

## Liquid pumps and pump units - Noise test code - Grades 2 and 3 of accuracy (ISO 20361:2007)

Pompes et groupes motopompes pour liquides - Code d'essai acoustique - Classes de précision 2 et 3 (ISO 20361:2007)

This European Standard was approved by CEN on 10 April 2009.

CEN 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 CEN Management Centre or to any CEN 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 CEN member into its own language and notified to the CEN Management Centre has the same status as the official versions.

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

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EUROPEAN COMMITTEE FOR STANDARDIZATION  
COMITÉ EUROPÉEN DE NORMALISATION  
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## Foreword

The text of ISO 20361:2007 has been prepared by Technical Committee ISO/TC 115 “Pumps” of the International Organization for Standardization (ISO) and has been taken over as EN ISO 20361:2009 by Technical Committee CEN/TC 197 “Pumps” the secretariat of which is held by AFNOR.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by October 2009, and conflicting national standards shall be withdrawn at the latest by December 2009.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 12639:2000.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EC Directives.

For relationship with EC Directives, see informative Annexes ZB and ZC, which are integral part of this document.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

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### Endorsement notice

The text of ISO 20361:2007 has been approved by CEN as a EN ISO 20361:2009 without any modification.

NOTE Normative references to International Standards are listed in annex ZA (normative).

## Annex ZA (normative)

### Normative references to international publications with their following 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.

Standard	Year	Title	EN	Year
ISO 3743-1 <sup>1)</sup>	1994	Acoustics — Determination of sound power levels of noise sources — Engineering methods for small, movable sources in reverberant fields — Part 1: Comparison method in hard-walled test rooms	1995	EN ISO 3743-1
ISO 3743-2	1994	Acoustics — Determination of sound power levels of noise sources using sound pressure — Engineering methods for small, movable sources in reverberant fields — Part 2: Methods for special reverberation test rooms	1996	EN ISO 3743-1
ISO 3744 <sup>2)</sup>	1994	Acoustics — Determination of sound power levels of noise sources using sound pressure — Engineering method in an essentially free field over a reflecting plane	1995	EN ISO 3744
ISO 3746 <sup>3)</sup>	1995	Acoustics — Determination of sound power levels of noise sources using sound pressure — Survey method using an enveloping measurement surface over a reflecting plane	1995	EN ISO 3746
ISO 4871	1996	Acoustics — Declaration and verification of noise emission values of machinery and equipment	1996	EN ISO 4871
ISO 9614-1	1993	Acoustics — Determination of sound power levels of noise sources using sound intensity — Part 1: Measurement at discrete points	1995	EN ISO 9614-1
ISO 9614-2	1996	Acoustics — Determination of sound power levels of noise sources using sound intensity — Part 2: Measurement by scanning	1996	EN ISO 9614-2

1) To be published (Revision of ISO 3743-1:1994)

2) To be published (Revision of ISO 3744:1994)

3) To be published (Revision of ISO 3746:1995)

Standard	Year	Title	EN	Year
ISO 11203	1995	Acoustics — Noise emitted by machinery and equipment — Determination of emission sound pressure levels at the work station and at other specified positions from the sound power level	1995	EN ISO 11203
ISO 12100-1	2003	Safety of machinery — Basic concepts, general principles for design — Part 1 : Basic terminology, methodology	2003	EN ISO 12100-1
ISO 12100-2	2003	Safety of machinery — Basic concepts, general principles for design — Part 2 : Technical principles (EN ISO 12100-2)	2003	EN ISO 12100-2
ISO 17769	2008	Liquid pumps – General terms and installation – Definitions, quantities, letter symbols and units	2000	EN 12723

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## Annex ZB (informative)

### Relationship between this European Standard and the Essential Requirements of EC Directive of EU Directive 98/37/CE

This European Standard has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association] to provide a means of conforming to Essential Requirements of the New Approach Directive 98/37/EC, amended by 98/79/EC

Once this standard is cited in the Official Journal of the European Communities under that Directive and has been implemented as a national standard in at least one Member State, compliance with the clauses of this standard given in table ZB confers, within the limits of the scope of this standard, a presumption of conformity with the corresponding Essential Requirements of that Directive and associated EFTA regulations.

**WARNING** — Other requirements and other EC Directives may be applicable to the product(s) falling within the scope of this standard.

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## Annex ZC (informative)

### Relationship between this European Standard and the Essential Requirements of Directive EU Directive 2006/42/EC

This European Standard has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association to provide a means of conforming to Essential Requirements of the New Approach Directive 2006/42/EC on machinery.

Once this standard is cited in the Official Journal of the European Communities under that Directive and has been implemented as a national standard in at least one Member State, compliance with the clauses of this standard given in table ZC confers, within the limits of the scope of this standard, a presumption of conformity with the corresponding Essential Requirements of that Directive and associated EFTA regulations.

**WARNING** — Other requirements and other EC Directives may be applicable to the product(s) falling within the scope of this standard.

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# INTERNATIONAL STANDARD

# ISO 20361

First edition  
2007-02-01

Corrected version  
2007-04-01

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## Liquid pumps and pump units — Noise test code — Grades 2 and 3 of accuracy

*Pompes et groupes motopompes pour liquides — Code d'essai  
acoustique — Classes de précision 2 et 3*

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