

## **Rotary positive displacement pumps - Performance tests for acceptance**

Rotary positive displacement pumps - Performance  
tests for acceptance

## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN 14343:2006 sisaldab Euroopa standardi EN 14343:2005 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 27.02.2006 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN 14343:2006 consists of the English text of the European standard EN 14343:2005.</p> <p>This document is endorsed on 27.02.2006 with the notification being published in the official publication of the Estonian national standardisation organisation.</p> <p>The standard is available from Estonian standardisation organisation.</p>
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<p><b>Käsitlusala:</b> This European Standard describes specified types of acceptance tests for rotary positive displacement pumps for applications other than fluid power, excluding progressing cavity and peristaltic type pumps.</p>	<p><b>Scope:</b> This European Standard describes specified types of acceptance tests for rotary positive displacement pumps for applications other than fluid power, excluding progressing cavity and peristaltic type pumps.</p>
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**ICS 23.080**

**Võtmesõnad:** acceptance inspection, acceptance testing, definition, definitions, efficiency, management, marking, performance, performance testing, performance tests, positive-displacement pumps, pumps, testing, testing conditions, tests

ICS 23.080

English Version

## Rotary positive displacement pumps - Performance tests for acceptance

Pompes volumétriques rotatives - Essais de performances  
pour la réception

Rotierende Verdrängerpumpen - Leistungsprüfung zur  
Abnahme

This European Standard was approved by CEN on 26 October 2005.

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 Central Secretariat 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 Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies 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.



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## Foreword

This European Standard (EN 14343:2005) has been prepared 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 June 2006, and conflicting national standards shall be withdrawn at the latest by June 2006.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: 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.

## 1 Scope

This European Standard describes specified types of acceptance tests for rotary positive displacement pumps for applications other than fluid power, excluding progressing cavity and peristaltic type pumps.

This European Standard applies to the testing of pumps with and without drivers.

This European Standard covers a selection of tests to establish a uniform demonstration of the pump's ability to perform satisfactorily. It does not, however, cover all tests that may be needed for particular pump types or applications, e.g. tests for hazardous liquids or single shaft multiple pump units. Furthermore, it does not cover any noise and vibration tests, priming tests nor any hydrostatic pressure tests. Some pump types with integral relief valves may require more extensive relief valve tests than described in this European Standard. For dosing and metering applications, further tests to demonstrate the dosing and metering abilities of the pumps may be necessary.

NOTE Extrapolation of test results to non-tested pumps is not described in this European Standard. Such extrapolation could be made for mass-produced pumps with reference to pertinent quality assurance methods and standards.

## 2 Normative references

The following referenced documents are indispensable for the application of this European Standard. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 10204, *Metallic products — Types of inspection documents*

EN 12723:2000, *Liquid pumps — General terms for pumps and installations — Definitions, quantities, letter symbols and units*

EN ISO 10012, *Measurement management systems — Requirements for measurement processes and measuring equipment (ISO 10012:2003)*

## 3 Terms and definitions

For the purposes of this European Standard, the following terms and definitions apply.

### 3.1 General

For the purposes of this European Standard, the terminology, symbols and abbreviations as given in EN 12723:2000 apply.

### 3.2 Types of test

#### 3.2.1 T1 flow test

test to verify that the pump flow is within a specified tolerance

#### 3.2.2 T2 power test

test to verify that the input power is within specified tolerances