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Centrifugal pumps - Test procedure for seal packings

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ICS 21.140, 23.080

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 16752

September 2015

ICS 21.140; 23.080

English Version

Centrifugal pumps - Test procedure for seal packings

Pompes centrifuges - Procédure d'essai pour garnitures tressées

Kreiselpumpen - Abnahmeprüfung für Packungen

This European Standard was approved by CEN on 1 August 2015.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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Ref. No. EN 16752:2015 E

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European foreword

This document (EN 16752:2015) 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of an identical text or by endorsement, at the latest by March 2016, and conflicting national standards shall be withdrawn at the latest by March 2016.

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1 Scope

This European Standard gives details of a test procedure for packings to be used to seal the stuffing boxes of centrifugal pumps. It gives provisions on the design of test equipment, standard test parameters and reporting criteria. It does not specify performance criteria which should be agreed between supplier and customer, but does define 3 tightness classes.

When necessary, this European Standard is also applicable to packings used on other rotary equipment such as mixers and agitators.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN ISO 286-2, *Geometrical product specifications (GPS) — ISO code system for tolerances on linear sizes — Part 2: Tables of standard tolerance classes and limit deviations for holes and shafts (ISO 286-2)*

3 Terms and definitions

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

3.1
stuffing box
space into which compression packing is inserted

Note 1 to entry: Stuffing box is also known as packing gland.

3.2
gland follower
part that provides into a stuffing box to compress a packing set or a packing ring

3.3
shaft
metal rod connecting the impeller of a pump to the motor

3.4
leakage
flow of liquid permitted to pass the packing

3.5
housing bore
dimension of the annular space that packing is inserted into

4 Test facility, testing apparatus

The test facility shall be arranged as described in Figure 1.

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