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**NATIONAL STANDARD OF THE
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GB/T 47398-2026

Test methods for rotary joints

旋转接头试验方法

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Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part

1.Structure and Drafting Rules of Standardization Documents". Drafting. Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents. This document was proposed by the China Machinery Industry Federation. This document is under the jurisdiction of the National Technical Committee on Standardization of Mechanical Seals (SAC/TC491). This document was drafted by: Fujian Minxuan Technology Co., Ltd., Hefei General Machinery Research Institute Co., Ltd., and Jiangsu Tengxuan Technology Co., Ltd. Limited Liability

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1 Scope

GB/T 47398-2026 is the Chinese national standard covering the rotary union - the fitting that passes steam, water or oil into a rotating drum or spindle, and whose seal has to hold pressure while turning continuously for months. It fixes the leakage, pressure, speed and endurance tests and the conditions for each. First edition, in force since 1 October 2026. It was issued on 31 March 2026 and takes effect on 1 October 2026, as a first edition. The document is under the responsibility of the China Machinery Industry Federation. This page is published from the official record of the 2026 edition; the clause text of a standard this recent is not yet in circulation, and the figures, limits and tables it contains are those of the document itself, delivered in full with the English translation.

This document describes the performance testing methods for rotary joints. This document applies to the testing of planar sealing rotary joints, spherical sealing rotary joints, and cylindrical elastomer sealing rotary joints.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included. For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies. This document.

GB/T 20082 Method for determining particulate contamination level in hydraulic transmission fluids using optical microscopy

GB/T 37163 Automatic particle counting method based on the principle of light shielding for determining particulate contamination in liquid samples using hydraulic transmission

GB/T 41069 Rotary Joint Terminology

JB/T 13968 Types, main dimensions, materials and identification marks of rotary joints

3 Terms and Definitions

The terms and definitions defined in GB/T 41069 apply to this document.

4 Test Classification

4.1 Type test. A test conducted to determine whether the rotary joint meets all the working characteristic requirements set by the technical specifications.

4.2 Factory test. Tests that should be performed on rotary joint products that have passed type testing before leaving the factory.

5 Test Items

5.1 The type of rotary joint shall conform to the provisions of JB/T 13968. The test items for flat sealing rotary joints and spherical sealing rotary joints shall conform to Table 1.

According to the regulations. Table

1 Test Items for Planar Sealing Rotary Joints and Spherical Sealing Rotary Joints Serial
Number Test Item Type Test Factory Test

1. Static pressure test sqrt sqrt Operational test 5-minute operation test sqrt sqrt 100-hour
operation test sqrt -