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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 13871.2-2015

**Rotary shaft lip-type seals incorporating elastomeric sealing
elements -- Part 2: Vocabulary**

密封元件为弹性体材料的旋转轴唇形密封圈 第2部分：词汇

(English Translation)

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Foreword

GB/T 13871 "for the seal element of elastomeric material rotary shaft lip seal" is divided into six sections.

- Part 1. Basic dimensions and tolerances;
- Part 2. Vocabulary;
- Part 3. Storage, handling and installation;
- Part 4. Performance test procedures;
- Part 5. Identification of visual defects;
- Part 6. Performance requirements of elastomeric material.

This section GB/T 13871 Part 2.

This section drafted in accordance with GB/T 1.1-2009 given rules.

This section uses redrafted Law Amendment uses ISO 6194-2:2009 "for the seal element of elastomeric material first rotary shaft lip seal Part 2. Vocabulary. " Technical differences exist compared to 2009, the terms of these differences has been involved through its outer margins. This part of ISO 6194-2 Vertical single-line position (l) have been marked, and the main technical difference between the following reasons.

--- On normative references, this part has been adjusted technical differences, in order to adapt our technical conditions, the adjusted situation Focus is reflected in the status of Chapter 2, "Normative references", the specific adjustments are as follows.

- equivalents adoption of international standards GB/T 3505 instead of ISO 4287, (see 3.2.59);
- equivalents adoption of international standards GB/T 10610 replaces ISO 4288, (see 3.2.59);

- equivalents adoption of international standards GB/T 17446 replaces ISO 5598, (see Chapter 1 and Chapter 3);
- 3.2.9 "curved lip portion" (flexsection) was changed to "lip waist" in order to adapt to China's technical conditions;
- 3.2.13 "lip surface" (lipface) was changed to "liquid side lip surface" (fluid-sidelipface), in order to adapt to China's technical conditions;
- 3.2.14 "lip surface angle" (lip-faceangle) was changed to "liquid side lip surface angle" (fluid-sidelip-faceangle), to Adaptation of the technical conditions;
- 3.2.58 "Spring Lip" (springretaininglip) was changed to "stop spring arm" in order to adapt to China's technical conditions;
- 3.3.2 "unglued" (bondfailure) was changed to "bonding is not strong" to adapt our technical conditions;
- 3.3.5 "strain" (deformation) is amended as "deformed" in order to adapt to China's technical conditions;
- 3.3.24 "blocking burr" (stuckflash) modified to "stick burr" in order to adapt to China's technical conditions.

This part made the following editorial changes.

- The last sentence of the range described in Chapter 1, "under seal for low pressure environment of the provisions of this section (see ISO 6194-1. 2007,6.1) "changed to the second paragraph of narrative, and ISO 6194-1:2007 6.1 content directly into the narrative;
- Delete Chapter 1 "Note";
- To comply with our habits, the "rotary shaft lip seals" as used herein is defined by the 3.1.6 and 3.1.1 to adjust the original 3.1.1 ~ Term adjustment 3.1.5 3.1.2 ~ 3.1.6.

This part is proposed by China Machinery Industry Federation.

This part of the National Standardization Technical Committee of hydraulic and pneumatic (SAC/TC3) centralized.

This section is drafted. Northwest Rubber Plastic Research and Design Institute, Qingdao Beihai Sealing Technology Co., Ltd. Shan Xi Tai Po seal, Duke Chongqing high-pressure seals Co., Ltd., Shangyu City, Zhejiang Province Seal Manufacturing Co., Jieyang City seals Tiancheng Co., Ltd., Chengdu Sheng Help seal Co., Ltd., Guangzhou Mechanical Engineering Research Institute Co., Ltd. Anhui Ding seals.

Introduction

Rotary shaft lip seals liquid relatively low pressure conditions for the equipment for sealing. Sport mode is usually the cavity axis and quiet Only, although some cases are stationary and the cavity axis of rotation.

In general, the dynamic seal between the shaft and through the flexible seal element is designed to form an interference fit.

Similarly, between the outer and inner hole seal chamber design form an interference fit to maintain a seal and prevent static leakage.

To avoid damage, before installation and during installation, it is necessary to be careful of all seal storage, handling and safety Equipment, improper storage, handling and installation can affect the seal life.

Rotary shaft lip seal element of elastomeric material Rings - Part 2. Vocabulary

1 Scope

This section GB/T 13871 defines the sealing element is an elastomeric material rotary shaft lip seals vocabulary, some terminology and defined in GB/T 17446.

This section applies to a low pressure (air side pressure was atmospheric pressure, the liquid-side pressure is higher than atmospheric pressure 0kPa ~ 30kPa) (see ISO 6194-1:2007 sealing element 6.1) under the use of a rotary shaft lip seals elastomer (hereinafter referred to as seal).

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

GB/T 3505 Geometrical product specifications (GPS) Surface texture Profile method - Terms, definitions and surface texture parameters (GB/T 3505-2009, ISO 4287:1997, IDT)
GB/T 10610 Geometrical product specifications (GPS) Surface texture Profile method - Rules and procedures for evaluation of the surface structure (GB/T 10610-2009, ISO 4288:1996, IDT) GB/T 17446 Fluid power systems and components - Vocabulary (GB/T 17446-2012, ISO 5598:2008, IDT)

3 Terms and Definitions

GB/T 17446 and as defined in the following terms and definitions apply to this section.

Typical ring type of seal Common seal types.

3.1.1

Rotary shaft lip seals rotaryshaftlip-type seal Cross-section having a deformable, generally metal support frame, the sealing lip relies on applying inward or outward radial force to prevent leakage of liquid Seal.

3.1.2

Assembled rotary shaft lip seals assembled rotaryshaftlip-type seal the inner and outer metal frame assembled by bonding and sealing lips on one of the metal skeleton ring.

Figure 1b).

3.1.3

Assembled rotary shaft lip protection lip seals assembled shaftlip-type seal with protection lip with protective lip, the inner and outer metal frame assembled by bonding and sealing lips on one of the metal skeleton ring.

See Figure 1d).