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CCS J20



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

**GB/T 15242.2-2017**

Replacing GB/T 15242.2-1994

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**Dimensions series of rod and piston dynamic seals for  
hydraulic cylinders - Part 2: Dimensions and tolerances of  
bearing rings**

液压缸活塞和活塞杆动密封装置尺寸系列 第2部分：支承环尺寸系列和公差

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### Foreword

GB/T 15242 "hydraulic cylinder piston and piston rod seal size series" is divided into the following four sections.

- Part 1. Coaxial seal size series and tolerances;
- Part 2. Supporting ring size series and tolerances;
- Part 3. Coaxial seal mounting groove size series and tolerances;
- Part 4. Supporting ring installation groove size series and tolerances. This section GB/T 15242 Part 2. This section drafted in accordance with GB/T 1.1-2009 given rules. This Part replaces GB/T 15242.2-1994 "hydraulic cylinder piston and piston rod seal ring size and tolerances," and GB/T 15242.2-1994 compared to editorial changes in addition to the main technical changes are as follows:
  - Supplement to improve the range (see Chapter 1,.1994 edition of Chapter 1);
  - Added terms and definitions (see Chapter 3);
  - Modify and supplement the symbol (see Chapter 4,.1994 edition Chapter 3);
  - Increasing the groove width code and size series (see Chapter 4, Table 3, Table 4);
  - Increased serial number (see Chapter 5);
  - Modify the support ring mounting groove diagram (see Figure 1 and Figure 2,.1994 version of Figure 1 and Figure 2);
  - Modify and supplement the size of the support ring series (see Table 3, Table 4,.1994 edition of Table 1, Table 2);
  - Perfecting the description of the incision type of product. Inclined incision, straight incision, take the interface (see Appendix A,.1994 edition of Appendix A); This part is proposed by China Machinery Industry Federation. This part of the National Hydraulic Pneumatic Standardization Technical Committee (SAC/TC3) centralized. This part of the drafting unit. Guangzhou Machinery Research Institute Co., Ltd., Northwest Rubber and

Plastic Research and Design Institute Co., Ltd., Qingdao Beihai Mi Feng Technology Co., Ltd. Xuzhou Xuzhou Hydraulic Co., Ltd., Cooper Seal Co., Ltd., Chongqing Duke High Pressure Seals Co., Ltd. Secretary, Hebei Longli Seal Technology Co., Ltd. The main drafters of this section. Liang Xiaofeng, Gao Jingru, Liu Jianhong, Yin Jianxin, Chen Dengmin, Zhu Baoning, Du Changchun, Song Xiqian, Yan Guoqing, Li Ming, Tao Su Bin. This part replaces the standards previously issued as.

--- GB/T 15242.2-1994. Hydraulic cylinder piston and piston rod seal size series Part 2. Supporting ring size series and tolerances

## 1 Scope

GB/T 15242.2-2017 is the Chinese national standard on dimensions series of rod and piston dynamic seals for hydraulic cylinders - part 2: dimensions and tolerances of bearing rings, in the field of fluid systems and general-purpose components. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 1 November 2017 by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China; Standardization Administration of China, and has been in force since 1 May 2018.

Classification: ICS 23.100.60, CCS J20. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

2 Piston support ring SD Cylinder bore or piston rod support ring groove bottom diameter D cross-sectional thickness of the support ring  $\delta$  Piston rod diameter or piston support ring groove bottom diameter d filled polytetrafluoroethylene (PTFE) material I Outer diameter of piston supporting ring D

1 Phenolic resin Cloth material II Piston rod supporting ring diameter d1 POM material III

## 2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version applies to this article Pieces. For undated references, the latest edition (including all amendments) applies to this document.

GB/T 17446 fluid transmission systems and components vocabulary

## 3 Terms and definitions

GB/T 17446 defined and the following terms and definitions apply to this document.

3.1 Bearing ring bearingring Piston or piston rod of the hydraulic cylinder to support the role

of the metal to avoid contact between the relative movement and provide radial support force of the cut Mouth annular non-metallic guide element.

#### 4 Code

Code in Table 1. Table 1 code Name Code Name Code Support ring mounting groove width  
b Support ring cutting length L. Support ring width b

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