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

GB/T 33924.2-2026

Replacing GB/T 33927-2017

**Pneumatic fluid power - Mounting dimensions of accessories
for cylinders - Part 2: Rod-end clevises**

气动缸的附件安装尺寸 第2部分：杆端耳环

(English Translation)

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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.

This document is Part 2 of GB/T 33924 "Accessory Mounting Dimensions for Pneumatic Cylinders". GB/T 33924 has the following publications.

part.

---Part 1: Rod End Joint Bearing;

---Part 2: Rod-End Earrings this document replaces GB/T 33927-2017 "Installation Dimensions of Piston Rod End Ring Fork in Cylinders". Compared with GB/T 33927-2017, except for the structural...

Aside from structural adjustments and editorial changes, the main technical changes are as follows.

---The scope of application of this document has been changed (see Chapter 1, Chapter 1 of GB/T 33927-2017);

---Added specifications and installation dimensions for single lugs at the rod end (see Chapter 4);

---The installation size requirements have been changed (see 5.1 of GB/T 33927-2017);

---The marking method for rod-end earrings has been changed (see Chapter 6, Chapter 6 of GB/T 33927-2017).

This document is modified to adopt ISO 8140:2018 "Installation dimensions of rod end lugs for pneumatic transmission 1000kPa (10bar) series cylinders".

The technical differences between this document and ISO 8140:2018, and the reasons therefor, are as follows.

---ISO 5598 (see Chapter 3) has been replaced with the normatively referenced GB/T 17446 to adapt to my country's technical conditions and improve operability.

Actual nature;

---ISO 6099 has been replaced with the normatively referenced GB/T 9094 (see Chapter 4) to adapt to my country's technical conditions and improve operability.

Actual nature;

---The marking method for the rod-end earrings has been changed (see Chapter 6) to adapt to my country's technical conditions and improve operability.

The following editorial changes have been made to this document.

---The standard name has been changed to "Accessory Mounting Dimensions for Pneumatic Cylinders Part 2: Rod End Earrings";

---The URLs for the terminology databases maintained by ISO and IEC for standardization have been removed;

---Figure 1 has been redrawn according to my country's mechanical engineering drawing standards.

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 Hydraulics and Pneumatics (SAC/TC3).

Introduction

Cylinder accessories are parts used to install and connect cylinders. Common rod end mounting accessories include rod end spherical bearings, rod end lugs, and rod ends.

Floating joints, etc.; to meet the needs of different application scenarios, the types and functions of cylinder mounting accessories are constantly being enriched and improved.

The emergence of this component provides more options for cylinder installation and application.

The rod end mounting accessory enables a non-rigid connection between the cylinder and

the mechanism, improving the cylinder's installation efficiency, operational stability, and reliability.

---Part 1: Rod End Joint Bearing. The purpose is to determine the mounting dimensions of the piston rod end joint bearing for the cylinder.

---Part 2: Rod End Lug. The purpose is to determine the installation dimensions of the piston rod end lug for the cylinder.

Pneumatic cylinder accessory installation dimensions Part 2: Rod-End Earrings

1 Scope

This document specifies the mounting dimensions of the piston rod end lugs for cylinders to ensure interchangeability.

This document applies to cylinders with a nominal pressure of 1.0 MPa manufactured in accordance with GB/T 8102, GB/T 32336 and GB/T 28781.

Rod-end earrings.

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 9094 Fluid Transmission Systems and Components - Cylinder Mounting Dimensions and Mounting Type Designations (GB/T 9094-2020, ISO 6099.

2018, IDT)

GB/T 17446 Glossary of Fluid Transmission Systems and Components (GB/T 17446-2024, ISO 5598:2020, MOD)

3 Terms and Definitions

The terms and definitions defined in GB/T 17446 apply to this document.

4 Installation dimensions

Rod-end earrings are divided into rod-end double earrings and rod-end single earrings.

The type designation shall comply with the provisions of GB/T 9094.