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

GB/T 17446-2024

Replacing GB/T 17446-2012

Fluid power systems and components - Vocabulary

流体传动系统及元件 词汇

(English Translation)

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part 1: Structure and drafting rules for standardization documents" Drafting is required.

This document replaces GB/T 17446-2012 "Fluid Power Systems and Components Vocabulary". Compared with GB/T 17446-2012, Except for structural adjustments and editorial changes, the main technical changes are shown in Appendix A.

This document is modified to adopt ISO 5598:2020 "Fluid power systems and components vocabulary".

Compared with ISO 5598:2020, this document has been restructured and the vocabulary has been classified. 3.1.1.1~3.1.1.10 correspond to Except for the newly added terms, the other terms in 3.1 of ISO 5598:2020 correspond to 3.2 of ISO 5598:2020.

The following editorial changes were made to this document.

--- Deleted the repeated "turbulent flow" diagram (see Figure 19 of ISO 5598:2020), added Figures 2, 3 and 4, and re-arranged the schematic diagram number;

--- Added Appendix A (informative).

1 Scope

This document defines the terminology for all fluid power systems and components except those used in aerospace and compressed air supply equipment.

This document applies to systems and components in the field of fluid power transmission.

2 Normative references

This document has no normative references.

3.1.1 Commonly used key adjectives and noun terms

3.1.1.1

actual

The result of a physical measurement at a given time and at a specific point in time.

3.1.1.2

characteristic

Representation of physical phenomena.

Examples. pressure, flow, temperature.

3.1.1.3

Working conditions

A set of characteristic values representing the working status.

3.1.1.4

derived

Obtained or calculated based on actual measurement under specified working conditions.

3.1.1.5

effective

Useful in features.

3.1.1.6

geometric

Calculated using basic design dimensions, ignoring minor dimensional variations such as those caused by manufacturing.

3.1.1.7

rated

Determined through testing, components or piping are designed accordingly to ensure adequate service life.

Note: Maximum (high) value and minimum (low) value are usually specified.