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

GB/T 44052-2024

**Hydraulic fluid power - Filters - Marking of performance
characteristics**

液压传动 过滤器 性能特性的标识

(English Translation)

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Table of Contents

Preface
Introduction
1 Scope
2 Normative references
3 Terms and Definitions
4 Symbols, abbreviations and units
5 Filter feature information
6 Overall layout of filter identification symbols
7 Identification of filter characteristics
8 Spin-on filter installation mark
9 Notes
Appendix A (Informative) Examples of hydraulic filter performance characteristics identification

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:

This document is equivalent to ISO 27407:2010 "Identification of performance characteristics of hydraulic filters for hydraulic transmissions":

The following minimal editorial changes were made to this document:

- Changed the standard name to coordinate with the existing standards;
- Deleted the pressure unit bar and the corresponding Pressure value:

Introduction

In a hydraulic system, power is transmitted and controlled by means of pressurized fluid in a closed circuit:

Filtering removes insoluble contaminants to protect the system: Marking the performance characteristics on the filter helps users identify and compare filters, making it easier to Easy to choose the right filter for your application:

Identification of performance characteristics of hydraulic transmission filters

1 Scope

This document describes a method for identifying filter performance characteristics so that they can be presented to users:

It can be used in coordination with the standards cited in this document, and can also be used in coordination with other standards related to the cited standards:

This document applies to information marking on filters: Manufacturers can also mark on product drawings or product packaging according to user requirements:

Same information:

2 Normative references

The contents of the following documents constitute the essential clauses of this document through normative references in this document:

For referenced documents without a date, only the version corresponding to that date applies to this document; for referenced documents without a date, the latest version (including all amendments) applies to this document:

ISO 1219-1 Fluid power systems and components Graphical symbols and circuit diagrams Part 1: Graphical symbols for general purposes and data processing applications Note: GB/T 786.1-2021 Fluid power systems and components - Graphical symbols and circuit diagrams - Part 1: Graphical symbols (ISO 1219-1:2012, IDT) Note: GB/T 14041.3-2010 Hydraulic filter element Part 3: Test method for crush (rupture) resistance (ISO 2941:2009, IDT) Note: GB/T 17486-2006 Evaluation of pressure drop and flow characteristics of hydraulic filters (ISO 3968:2001, IDT) Note: GB/T 17446-2024 Fluid power systems and components vocabulary (ISO 5598:2020, MOD) Note: GB/T 18853-2015 Hydraulic transmission filters - Multiple pass method for evaluating filter element filtration performance (ISO 16889:2008, MOD) ANSI/(NFPA) T3:10:17-1995(R2004) Limited Life Hydraulic Filter Pressure/Life Ratings Spin-On Hydraulic Filters

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 5598 apply:

4 Symbols, abbreviations and units

Table 1 lists the characteristics, relevant symbols and definitions of abbreviations used in Chapters 6, 7 and the legends: SI units should be used: