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

GB/T 26114-2024

Replacing GB/T 26114-2010

Filters for liquid filtration - General technical specification

液体过滤用过滤器 通用技术规范

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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: This document replaces GB/T 26114-2010 "General Technical Specification for Filters for Liquid Filtration" and is consistent with GB/T 26114-2010: In addition to structural adjustments and editorial changes, the main technical changes are as follows:

- a) The scope of application has been changed (see Chapter 1, Chapter 1 of the:2010 edition), and "non-hydraulic systems" has been deleted (see Chapter 1 of the:2010 edition): Chapter 1);
- b) The definitions of core filter, basket filter and disc filter have been changed (see 3:2 to 3:4, 3:4 to 3:6 of the:2010 edition), and In addition to the terms and definitions for "filter bag" and "filter basket" (see Chapter 3 of the:2010 edition);
- c) The filter model indication method has been deleted (see 4:3 of the:2010 edition);
- d) Added basic requirements to be followed in design and requirements for geometric dimensions (see 5:1);
- e) The requirements for metal materials in the requirements for materials and purchased parts have been changed (see 5:3:1, 5:3:1 of the:2010 edition), and castings and forgings have been deleted: The requirements for material selection (see 5:3:2, 5:3:3, 5:3:4 of the:2010 edition) have been added with regard to the material contact part: Request (see 5:3:3);
- f) Increased internal sealing between the filter element and the support, the top cover and the top cover fixing, the space between the filter element, the filter The support type and position design and the requirements for filter structure in special industries (see 5:4:1,

5:4:4~5:4:7) are deleted: Strength and rigidity requirements for cylinder top cover and fixings (see 5:4:3 of the:2010 edition);

g) Added the requirements for filter sealing (see 5:5:2);

h) The requirements for appearance quality have been changed (see 5:5:3:1, 5:5:3:1 of the:2010 edition);

i) Added safety requirements for design failure, misoperation, shutdown or standby (see 5:6:1 and 5:6:2);

j) Added anti-static requirements for filter elements and safety requirements for electrical control systems (see 5:6:5 and 5:6:6);

k) Changed the test methods for filtration accuracy and pressure drop-flux characteristics to GB/T 30176 (see 6:1:2, 6:1:2,:2010 edition) 6:1:1, 6:1:2);

l) Added test methods for the internal sealing, geometric dimensions, appearance quality and safety performance of filter elements and support parts (see 6:2, 6:3, 6:6, 6:7);

m) The test methods for non-destructive testing and pressure testing have been changed (see 6:4, 6:5, 6:2, 6:3 of the:2010 edition);

1 Scope

China's national general technical specification for filters used in liquid filtration. It specifies the classification, the requirements, the test methods, the inspection rules and the marking, packaging, transport and storage of liquid filters. A filter is a component almost every process plant contains and almost no plant specifies carefully, and the reason this standard exists is that the two numbers a filter is usually bought on - a micron rating and a flow rate - do not by themselves describe it. A micron rating means nothing until it is stated how it was determined and to what efficiency. A filter that removes ninety-five per cent of particles at a given size and one that removes 99.98 per cent at the same size are both sold with the same number on the label, and the difference between them is two orders of magnitude in what passes downstream. So the specification has to fix the efficiency basis and the test that establishes it, which is what makes ratings from different manufacturers comparable at all. The other requirements follow from what breaks a filter in service. The differential pressure rises as the element loads, so the collapse strength and the burst pressure decide what happens when the element is not changed on time - and an element that collapses releases everything it has collected at once, which is worse than never having filtered. The housing is a pressure vessel and has to be treated as one. The seals and the bypass arrangement determine whether the filtered flow actually goes through the medium. And the compatibility of the medium and the seals with the liquid and its temperature determines whether the element survives at all. Issued on 25 April 2024 and in force since 1 November 2024, it replaces GB/T 26114-2010.

This document specifies the types, technical requirements, test methods, inspection rules, standards, and specifications of filters for liquid filtration (hereinafter referred to as "filters"): Marking, random technical documents, packaging, transportation and storage: This document applies to the design, manufacture and use of bag filters, core filters, basket filters and disc filters for liquid filtration: test:

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: GB/T 150:

3 Terms and definitions

The terms and definitions defined in GB/T 4774 and GB/T 17446 and the following apply to this document: 3:

1 Bag filter bagfilter A pressure filter with filter bags as filter elements:

Note: The filter bag is supported by a perforated plate or a frame-shaped basket inside the filter: The liquid enters the filter bag and flows out after being filtered: Impurities are intercepted inside the filter bag: Replace or clean: 3:

2 Cartridge filter A filter with a filter element as the filter element: 3:

3 Basket filter basketfilter A filter with a filter basket as the filter element:

4 Pressure vessels Part 4: Manufacturing, inspection and acceptance

GB/T 2346 Nominal pressure series for fluid transmission systems and components

GB/T 4774 Terminology of Filtration and Separation

GB/T 17446 Vocabulary of fluid transmission systems and components

GB/T 25150 Test method for the quality of passive film on austenitic stainless steel in chemical cleaning of industrial equipment - Blue dot method

GB/T 30176 Test methods for filter performance for liquid filtration

GB/T 36522 General technical requirements for electrical control systems for separation machinery NB/T 10558 Pressure vessel coating and transport packaging NB/T 47003:

1 Atmospheric pressure vessels Part 1: Steel welded atmospheric pressure vessels NB/T

47015 Pressure vessel welding code TSG

21 Safety Technical Supervision Regulations for Stationary Pressure Vessels

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