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

GB/T 13403-2023

Replacing GB/T 13403-2008

Gaskets for large-diameter steel pipe flanges

大直径钢制管法兰用垫片

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Table of Contents

1	Scope
2	Normative reference documents
3	Terms and definitions
4	Symbols
5	Requirement
5.1	Types and dimensions
6	Inspection
6.1	General
6.2	Sampling and batching
6.4	Inspection methods and judgment rules
7	Marks and emblems
8.1	Packaging
19	Reference

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 replaces GB/T 13403-2008 "Gaskets for Large Diameter Steel Pipe Flanges". Compared with GB/T 13403-2008, except for the structure In addition to adjustments and editorial changes, the main technical changes are as follows:

- a) Added metal toothed combination gaskets and related requirements (see Chapter 1, Chapter 4, 5.1.4, 5.2.4, Chapter 6 and Chapter 7);
- b) Added instructions for the size and type selection of the "locating ring type" gasket (see Table 1~Table 2);
- c) Increased the dimensions of non-metallic flat gaskets and flexible graphite composite reinforced gaskets for B series flange Class 75 (see Table 4 and Table 12);
- d) Changed the dimensions of non-metallic flat gaskets, metal corrugated composite gaskets, and flexible graphite composite reinforced gaskets (see Table 3 to Table 8, Table 11 ~ Table 12, Table 3 ~ Table 10 of the 2008 version);
- e) Changed the dimensional limit deviation of gaskets (see Table 13~Table 15, Table 17,

Table 11~Table 14 of the.2008 version);

f) Added dimensional limit deviation requirements for non-metallic flat gaskets of rubber sheets (see Table 14);

g) Added requirements for product transportation and storage (see 8.2.3). Please note that some content in this document may be subject to patents. The publisher of this document assumes no responsibility for identifying patents. This document is proposed by China Machinery Industry Federation. This document is under the jurisdiction of the National Technical Committee on Standardization of Pipe Accessories (SAC/TC237). This document was drafted by: Ningbo Tiansheng Seals Co., Ltd., Zhongji Productivity Promotion Center Co., Ltd., Zhejiang Cathay Xiaoxing Sealing Materials Materials Co., Ltd., Cixi Hengli Sealing Materials Co., Ltd., Ningbo Xinyuan Industrial Group Co., Ltd., Guangzhou Dongshan Southern Seals Co., Ltd., Baoyi Group Co., Ltd., PetroChina East China Design Institute Co., Ltd. The main drafters of this document. Qiu Kuanheng, Feng Feng, Zhang Jiahong, Li Xinggen, Xu Shaohuan, Lin Jianhong, Wu Kaijun, Zhang Xiaozhong, Liu Hongfu, Luo Wenjun. This document was first published in.1992, revised for the first time in.2008, and this is the second revision. Gaskets for large diameter steel pipe flanges

1 Scope

GB/T 13403-2023 is the Chinese national standard on gaskets for large-diameter steel pipe flanges, 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 7 September 2023 by the State Administration for Market Regulation; Standardization Administration of China, and has been in force since 1 April 2024. Classification: ICS 23.040.60, CCS J15. 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.

This document specifies the requirements for gaskets, inspection, marking and marking as well as packaging, transportation and storage of large diameter steel pipe flanges. This document is applicable to large diameter steel pipe flanges of DN650 (NPS26) ~ DN1500 (NPS60), Class150 ~ Class900 Use spiral wound gaskets, metal corrugated composite gaskets (hereinafter referred to as corrugated gaskets), metal toothed combination gaskets (hereinafter referred to as toothed gaskets) and Class75~Class300 non-metallic flat gaskets and flexible graphite composite reinforced gaskets (hereinafter referred to as reinforced gaskets).

2 Normative reference documents

The contents of the following documents constitute essential provisions of this document through normative references in the text. Among them, the dated quotations For undated referenced documents, only the version corresponding to that date applies to this document; for undated referenced documents, the latest version (including all amendments) applies to this document.

GB/T 4622.2 Wound gaskets for pipe flanges Part

3 Terms and definitions

There are no terms or definitions to be defined in this document.

4 Symbols

The following symbols apply to this document. b. Width of positioning ear of corrugated gasket, unit is millimeter (mm) c. Reinforced gasket (metal) hemming width, unit is millimeter (mm) D. Non-metallic flat gasket outer diameter/reinforced gasket outer diameter/corrugated gasket positioning lug outer diameter, unit is millimeter (mm) D

1.Inner diameter of inner ring of spiral wound gasket, unit is millimeter (mm) D

2.Inner diameter of spiral wound gasket sealing element/inner diameter of metal skeleton of corrugated gasket/inner diameter of metal core of toothed gasket, unit is millimeter (mm) D

3.The outer diameter of the spiral wound gasket sealing element (the inner diameter of the positioning ring)/the outer diameter of the metal skeleton of the corrugated gasket/the outer diameter of the metal core of the toothed gasket, unit in millimeters (mm) D

4.The outer diameter of the wound gasket positioning ring/the outer diameter of the corrugated gasket positioning ring/the outer diameter of the toothed gasket movable positioning ring, in millimeters (mm) d. Inner diameter of non-metallic flat gasket/inner diameter of reinforced gasket, in millimeters (mm) K. Center distance of corrugated gasket positioning lugs (diameter of center circle of flange bolt hole), unit is millimeter (mm) L. Corrugated gasket positioning ear aperture (flange bolt hole aperture), unit is millimeter (mm) T. Thickness of wound gasket sealing element/thickness of non-metallic flat gasket/overall thickness of corrugated gasket/overall thickness of toothed gasket/reinforcement pad