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

中华人民共和国国家标准

GB/T 12385-2008

Replace GB/T 12385-1990

**Standard test method for sealability of gaskets
for pipe flanges
管法兰用垫片密封性能试验方法**

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Quarantine of the People's Republic of China
Standardization Administration of China**

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Foreword

This Standard is an amendment to GB/T 12385-1990 *Standard Test Method for Sealability of Gaskets for Pipe Flanges*, and the main changes compared with GB/T 12385-1990 are as follows:

——The applicable scope of the Standard is modified to add the non-asbestos rubber gaskets, rubber gaskets, PTFE gaskets, expanded or modified PTFE gaskets, flexible graphite composite gaskets, and gaskets of serrated metal, corrugated metal and waveform serrated metal with non-metallic coating;

——Rules and regulations are supplemented as per added gasket types, including sample pretreatment method, gasket preload stress, test temperature, test medium pressure and so forth;

——Referring to ASTM F112 and F37, pressure drop method is adopted for the measurement of leakage rate in this test method B, and test apparatus, test procedures and the calculation of leakage rate are changed accordingly;

——General provisions for the key measuring instruments are added;

——Provisions for the number of tests and the test report content are added.

This standard will replace GB/T 12385-1990 from the date of its implementation.

This Standard is put forward by China Machinery Industry Federation (CMIF).

This standard is centralized managed by National Pipe Accessories Standardization Technical Committee.

This Standard is drafted by: Nanjing Tech University, China Productivity Center for Machinery (CPCFM), Zhejiang Cathay Packing & Sealing Co., Ltd., Ningbo Tiansheng Sealing Packing Co., Ltd., Ningbo IDT Sinyuan Sealing Technology Co., Ltd., National Non-metallic Mineral Products Quality Supervision and Inspection Center, East China University of Science and Technology.

The main drafters of this Standard are: Gu Boqin, Li Junying, Wu Yimin, Cai Renliang, Chen Ye, Li Xinggen, Yuan Yilin, Lei Jianbin, Feng Mei.

Previous versions of the standard replaced by this standard are as follows:

——GB/T 12385-1990.

Standard test method for sealability of gaskets for pipe flanges

1 Scope

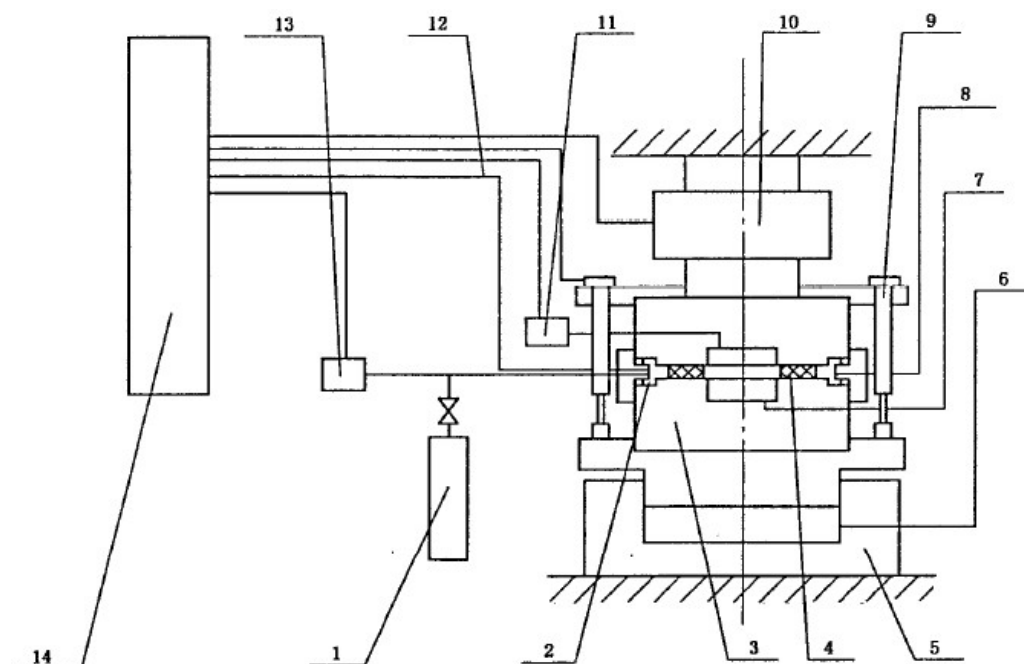
This Standard specifies two test methods, Method A and Method B, for the sealability of gaskets for pipe flanges.

The two test methods of this standard are applicable to asbestos rubber gaskets, non-asbestos rubber gaskets, rubber gaskets, PTFE gaskets, expanded or modified PTFE gasket, flexible graphite composite gaskets, spiral wound gaskets, metallic clad gaskets, PTFE clad gaskets and gaskets of serrated metal, corrugated metal and waveform serrated metal with non-metallic coating. They are also applicable to metallic flat gaskets.

2 Test Method A

2.1 Test apparatus

2.1.1 The test shall be carried out on dedicated test apparatus for the comprehensive performance of gasket. The test apparatus consists of gasket loading system, medium supply system, leak detection system and test flanges, etc., as shown in Figure 1.



1 Standard vessel;

8 calibration gas source;



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