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

GB/T 46775-2025

**Petroleum and natural industries - Pipeline transportation
systems - Test procedures for thread connectors**

石油天然气工业 管道输送系统 螺纹连接件试验程序

(English Translation)

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Table of Contents

Preface
1 Scope
2 Normative References
3 Terms and Definitions
4 Symbols and Abbreviations
5 General Requirements
6 Instruments and Equipment
7 Sample
8 General Requirements
9 Experimental Procedure
10 Experimental Data Processing
11 Quality Assurance and Control
12 Test Report
13 Special Cases
Appendix A (Normative) Geometric Dimensions and Performance Data of Connectors
Appendix B (Normative) Application Level
Appendix C (Informative) Experimental Data Table
Appendix D (Normative) Calculation of Service Loads for Connectors
References

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".

1 Scope

This document specifies the general requirements, instruments, equipment, specimens, and general requirements for testing threaded connections in pipeline transportation systems, and establishes the test procedures.

This document also specifies the procedures for test data processing, quality assurance and control, test reporting, and special circumstances.

This document applies to the testing of threaded connections used in pipeline

transportation systems in the oil and gas industry.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included.

For references to documents, only the version corresponding to that date applies; for undated references, the latest version (including all revisions) applies to this document.

GB/T 228.1 Metallic materials - Tensile testing - Part 1: Test method at room temperature

GB/T 9711 Steel pipes for pipeline transportation systems in the oil and gas industry

GB/T 16253 Pressure-bearing steel castings

GB/T 44148.1 Steel forgings, rolled or forged steel bars for pressure equipment - Part 1: General requirements

3 Terms and Definitions

The following terms and definitions apply to this document.

3.1 Application level

A series of test levels determined based on the service conditions of pipelines and risers.

3.2 Batch lot

A group of products produced through continuous operation with consistent chemical composition, processing, and heat treatment.

3.3 Thread connector

A mechanical device that uses threaded connections to connect adjacent components in a pipeline.

Note: Hereinafter referred to as "connector".

3.4 Hook and loop fastener

Damage morphology caused by cold welding tearing on the contact surface of metal materials during sliding or rotation.

3.5 Smelting batch heat

Steel from the same batch produced using the same process.