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

GB/T 47414-2026

General specification for pipeline sampling devices

管道采样装置通用技术规范

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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. Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents. This document was proposed by the China Machinery Industry Federation. This document is under the jurisdiction of the National Technical Committee on Standardization of Pipeline Fittings (SAC/TC237). This document was drafted by: Jiangsu Xintai Chemical Equipment Co., Ltd., China National Petroleum Corporation East China Design Institute Co., Ltd., and China Machinery Research Institute of Standards and Technology. Institute (Beijing) Co., Ltd., China Petrochemical Engineering Construction Co., Ltd., China Tianchen Engineering Co., Ltd., Beijing Petrochemical Engineering Co., Ltd. Nanjing Hangda Precision Machinery Co., Ltd., Hubei Wan'an Environmental Protection Petrochemical Equipment Co., Ltd., Qingdao Ruitong Measurement and Control Technology Co., Ltd., Jiangsu Tianyu Petrochemical Metallurgical Equipment Co., Ltd., Nantong Sanlian Petrochemical Equipment Manufacturing Co., Ltd., Luoyang Deming Petrochemical Equipment Co., Ltd., Jiangsu Taide Environmental Protection Equipment Co., Ltd. Bao Equipment Co., Ltd., State Grid Electric Power Engineering Research Institute Co., Ltd., and Zhejiang Jinmasun Intelligent Manufacturing Co., Ltd. The main drafters of this document are. Liu Hongfu, Zhang Qianqiu, Feng Feng, Ke Songlin, Yi Hui, Zhao Hongtao, Fu Renchao, Chen Cheng, Fu Jingxin, Lu Kai, and Ma Mingguo. Zhang Jun, Yu Minjian, Zhou Di, Bao Guangtong, Ren Honglei, Wen Shichang, Liu Hanying, Shi Donglin, Gu Ke, Lin Yaochen, Wang Xiaojuan. General Technical Specifications for Pipeline Sampling Devices

1 Scope

GB/T 47414-2026 is the Chinese national standard covering taking a representative sample from a flowing pipeline - the probe and its insertion, the fast loop, the conditioning and the automatic sampler, on which custody transfer measurements and process control both depend. A sample that is not representative makes every analysis downstream of it worthless. First edition, 22,000 words, in force since 1 October 2026. It was issued on 31 March 2026 and takes effect on 1 October 2026, as a first edition. The document is under the responsibility of the China Machinery Industry Federation. This page is published from the official record of the 2026 edition; the clause text of a standard this recent is not yet in circulation, and the figures, limits and tables it contains are those of the document itself, delivered in full with the English translation.

This document specifies the design, technical requirements, inspection and testing, inspection rules, marking, labeling, packaging, transportation and storage of pipeline sampling devices. Storage and installation requirements. This document applies to sampling devices used in industrial pipelines that transport gaseous, liquid, or gas-liquid mixed media.

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 to this document; for undated references, the latest version (including all amendments) applies. This document.

GB/T 150 (All Parts) Pressure Vessels

GB/T 5099.4 Seamless steel gas cylinders - Part

3 Terms and Definitions

The following terms and definitions apply to this document.

3.1 sampling device Pipeline systems that enable sampling of the medium to be sampled.

Note. Sampling devices typically consist of the following three parts. the inlet pipe from the sampling point in the process pipeline to the sampling component, the sampling component, and the sampling medium return pipe (e.g.,...). (If there is).

3.2 Sampler component Accessories such as pipes, fittings, valves, sampling containers, instruments, pressure boosting and depressurization devices, heat exchangers, and integrated panels are manufactured by specialized factories. The unit is integrated into a protective case with a support frame and is supplied as a skid-mounted unit.

4 Seamless stainless steel gas cylinders

GB/T 12234 Steel gate valves with studded bonnets for use in the petroleum and natural gas industry

GB/T 12235 Steel gate valves and lift check valves for use in petroleum, petrochemical and related industries

GB/T 12237 Steel ball valves for petroleum, petrochemical and related industries GB/T 13306 Nameplates

GB/T 20801 (All Parts) Pressure Piping Specification

GB/T 26480 Inspection and Testing of Valves

GB 50235 Construction Specification for Industrial Metal Piping Engineering NB/T 10558 Coating and Transport Packaging for Pressure Vessels NB/T 47013.2 Non-destructive testing of pressure equipment - Part

2. Radiographic testing NB/T 47013.5 Non-destructive testing of pressure equipment - Part

5. Penetrant testing SH/T 3059-2012 Specification for Selection of Materials in Petrochemical Pipeline Design SH/T 3104 Specification for Installation Design of Instruments in Petrochemical Industry