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NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

GB/T 25026-2017

Replacing GB/T 25026-2010

Structure, main dimensions and basic parameters of one-piece glass-lined steel vessels with agitator

搪玻璃闭式搅拌容器型式、主要尺寸及基本参数

Issued on: September 29, 2017 **Implemented on: February 1, 2018**

Issued by: General Administration of Quality Supervision, Inspection and Quarantine;
Standardization Administration of the PRC

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009. This standard replaces GB/T 25026-2010 "glass-lined closed mixing vessel", compared with GB/T 25026-2010, in addition to editorial repair Change the main technical changes are as follows:

--- Increase 1000L ~ 40000L fully enclosed structure of glass-lined mixing vessel type, main dimensions and basic parameters;

--- Nominal diameter DN1200 ~ DN2000 mixing vessel, adjust the interchangeable nozzle N1 and nozzle T position;

--- Nominal diameter DN2200 ~ DN3600 mixing vessel, nozzle N1 orientation from 40 ° to 45 °;

--- Remove the original standard 6.1 "glass-lined closed vessel design, manufacture, inspection and acceptance according to GB 25025 and the relevant standards Norms, "6.2" glass-lined closed container mixing all accessories, such as manhole, high-neck flange, manhole flange, nozzle, clip, looper Flanges, transmissions, agitators, seals, gaskets, thermometer covers (including bezels), sight glasses and flange covers must comply with phase Should be glass-lined equipment parts standards, "6.3" glass-lined closed mixing vessel should be carried out with water to bring the pressure Mixing operation test, the test results should be consistent with the requirements of the design drawings ";

--- Delete the original standard chapter 7 "factory documents, packaging, transportation and storage." This standard proposed by the China Petroleum and Chemical Industry Federation. This standard by the National Glass-lined Equipment Standardization Technical Committee (SAC/TC72) centralized. The main drafting units of this standard. Zibo Taiji Industrial Enamel Co., Ltd., Suzhou City, Chemical Equipment Co., Ltd., Jiangsu Yang Yang Chemical Equipment Manufacturing Co., Ltd., Zibo Bao Te Chemical Technology Co., Ltd., Jiangyin Chemical Equipment Factory, Gansu Province Boiler and Pressure Vessel Inspection Institute, Tianhua Chemical Machinery and Automation Research and Design Institute Co., Ltd., Chemical Industry Non-metallic Materials and Equipment Quality Supervision and Inspection Center. The main drafters of this standard. Qian Jianfeng, Sang

Linchun, Fu Jun, Zhu Hongzhi, Xu Tao, Eternal Red, Xu Guoping, Li Wei, Ding Jigen, Zhang Zhongli, Wei hole hill. This standard replaces the standards previously issued as.

--- GB/T 25026-2010. Glass-lined closed container type, The main dimensions and basic parameters

1 Scope

China's national standard for the types, main dimensions and basic parameters of closed glass-lined agitated vessels. It specifies the structural forms, the principal dimensions and the basic parameters of one-piece glass-lined steel reaction vessels fitted with agitators. A glass-lined vessel is a steel pressure vessel with a fused glass coating on every wetted surface, and it is the standard reactor of the fine chemical and pharmaceutical industries because glass is inert to almost everything: strong acids at temperature, chlorides, organics, and the reagent sequences of a multi-step synthesis that no single metal would survive. The lining is not a coating in the paint sense - it is a glass frit fired onto the steel at around nine hundred degrees, forming a chemical bond, and it becomes an integral part of the vessel. That is also its weakness. Glass is brittle and in permanent compression from the mismatch in thermal expansion with the steel beneath, so it will not tolerate mechanical shock, sharp thermal transients or tensile flexing of the shell, and a chipped lining exposes bare steel to the process with no way to repair it in place. All of that constrains the geometry, which is why the dimensions are standardised rather than left to the maker: the vessel cannot be an arbitrary shape, because the shell has to be formed and fired as a piece, every internal corner has to be radiused for the glass to cover it, and the nozzles, the agitator and the baffle have to be arranged so the lining can be applied and inspected. Standardising the forms and dimensions also makes the agitators, seals, drives and internals interchangeable, which matters for equipment that is bought as a system and repaired over decades. Issued on 29 September 2017 and in force since 1 February 2018, it replaces GB/T 25026-2010.

This standard specifies the definition, type, main dimensions and basic parameters of glass-lined closed vessel, marking. This standard applies to the inner container design pressure is less than or equal to 1.0MPa, nominal volume 1000L ~ 40000L, U-type jacket design Pressure less than or equal to 0.6MPa, inner container and jacket design temperature higher than -20 °C ~.200 °C glass-lined closed vessel.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version applies to this article Pieces. For undated references, the latest edition (including all amendments) applies to this document.

GB 25025 glass-lined equipment technical conditions

HG/T 2048.1 glass-lined packing box

HG/T 2050 glass-lined equipment gasket

HG/T 2051.3 glass-lined blender impeller stirrer

HG/T 2051.4 glass-lined mixer paddle mixer

HG/T 2052 glass-lined equipment transmission

HG/T 2054 glass-lined equipment clip

HG/T 2055.1 glass-lined manhole

HG/T 2055.2 glass-lined with manhole lens

HG/T 2057 Glass-lined mixing vessel with mechanical seal

HG/T 2058.1 glass-lined thermometer sets

HG/T 2058.2 glass-lined baffle thermometer sets

HG/T 2143 glass-lined equipment nozzle

3 Terms and definitions

The following terms and definitions apply to this document.

3.1 Calculate the volume capacityforunderagitatorflangedoragitatornozzles When the head of the container is provided with the equipment flange, it means the volume below the flange. When the head of the container is not provided with the equipment flange, the mixing shaft Hole below the volume.