



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

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**Technical requirements and test methods for gaseous
hydrogen valves used in hydrogen fuelling stations**

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1 Scope

This document specifies the technical requirements, test methods, marks and other requirements for gaseous hydrogen valves used in hydrogen fuelling stations (hereinafter referred to as "valves").

This document applies to gaseous hydrogen valves used in hydrogen fuelling stations that meet the following conditions:

- a) The ambient temperature is -40 degrees C~60 degrees C;
- b) The hydrogen charging pressure does not exceed 70 MPa at 15°C.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

GB/T 528, Rubber, vulcanized or thermoplastic -- Determination of tensile stress-strain properties

GB/T 4213, Pneumatic industrial process control valves

GB/T 12220, Industrial valves -- Marking

GB/T 12241, Safety valves -- General requirements

GB/T 14041.1, Hydraulic fluid power -- Filter elements -- Part 1: Verification of fabrication integrity and determination of the first bubble point

GB/T 14041.3, Hydraulic fluid power -- Filter elements -- Part 3: Verification of collapse/burst pressure rating

GB/T 14041.4, Hydraulic fluid power -- Filter elements -- Part 4: Method for rated end load test