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HG

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

中华人民共和国化工行业标准

HG/T 20553-2011

Replace HG 20553-1993

**Selection series of steel pipe size for
chemical piping**

化工配管用无缝及焊接钢管尺寸选用系列

Issued on May 18, 2011

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China**

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Foreword

This standard is compiled by China Petroleum & Chemical Engineering Survey and Design Association, Process Piping Design Technical Center (PPDTC) and Hunan Chemical & Pharmaceutical Design Institute, requested by No.[2007]1415 of National Development and Reform Commission and No.[2007] 144 of China Petroleum and Chemical Industry Association.

This standard will replace Selection series of steel pipe size for chemical piping HG 21553—1993 since the implementation date.

This standard, as the technical document that guides selection of steel tube sizes in the chemical piping design, avoids selecting mass per unit length for the steel tubes with same specification and sizes.

This standard, in comparison with GB/T 21553-1993, has the main changes as follows:

- Expand the size range of the Ia series welded steel tube, expanding from original DN650-DN1500 to DN650-DN2000;

- Expand the size range of the Ib series steel tube, expanding from original DN6-DN250 to DN6-DN600;

- Add, delete and modify the outer diameter, wall thickness, size and theoretical mass per unit length of some steel tubes;

- Cancel the section of “steel tube, commonly-used grades of steel and temperature range for use”;

- Add the computational formula of the theoretical mass per steel tube unit length

The Standard is under the jurisdiction of China Petroleum and Chemical Industry Association.

PPDTC is responsible for explaining the technical content of this standard. During the implementation process, if it needs to be modified or supplemented, please sent the opinions and interrelated data to the PPDTC for reference in the future revision (address: No.7, East Street, Yinghua Garden, Chaoyang District, Beijing, Post code: 100029).

This Standard is drafted by and main drafters:

This Standard is drafted by: PPDTC

Hunan Chemical &Pharmaceutical Design Institute

Main drafters of this Standard: Feng Kai, Liu Zhiwei

I General rules

- 1.0.1** In order to guide the selection of the steel pipe size in the chemical piping design, and guarantee the safety, appropriateness, economical efficiency and reasonableness, quality, this standard is hereby formulated.
- 1.0.2** This standard applies to selection of steel pipe sizes in the chemical engineering construction to be newly built, rebuilt or expanded.
- 1.0.3** This standard does not apply to the selection of the sizes of the following steel pipes
- 1 Steel pipes used for chemical equipment (non-piping) and other heat exchanger pipe bundle.
 - 2 Steel pipes in High-pressure Pipe Fitting, Pipe Fittings and Fastening Piece Universal H3-67.
- 1.0.4** In addition to following the provisions of this standard, steel pipe size for chemical piping shall also conform to the requirements of current national standards.

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