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NATIONAL STANDARD OF THE
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GB/T 1047-2019

Replacing GB/T 1047-2005

Pipework components -

Definition and selection of nominal size

管道元件 工程尺寸的定义和选用

(ISO 6708:1995, Pipework components -
Definition and selection of DN (nominal size), NEQ)

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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 1047-2005, *Pipework components – Definition and selection of DN (nominal size)*. Compared with GB/T 1047-2005, in addition to editorial changes, the major technical changes are as follows:

- it adds nominal sizes DN 550, DN 650, DN 750, DN 850, DN 950, DN 1050, DN 1150, DN 1300, DN 1700, DN 1900, DN 2100, DN 2300, DN 2500, DN 2700, DN 2700 and DN 2900 (see 3.1; Clause 3 of 2005 edition);
- it adds the correspondence between nominal size DN and NPS (see Annex A).

This Standard was redrafted by referencing to ISO 6708:1995, *Pipework components – Definition and selection of DN (nominal size)*. This standard was nonequivalent to ISO 6708:1995.

This Standard was proposed by the China Machinery Industry Federation.

This Standard shall be under the jurisdiction of National Technical Committee 237 on Pipeline Fittings of Standardization Administration of China (SAC/TC 237).

The drafting organizations of this Standard: China Productivity Center for Machinery, Sinopec Engineering Incorporation, MCC Capital Engineering and Research Incorporation Co., Ltd., China Sinogy Electric Engineering Co., Ltd., China Energy Engineering Group Guangdong Electric Power Design Institute Co., Ltd., Chaoda Valve Group Co., Ltd., China Institute of Marine Technology and Economy, Saint-Gobain Pipework System Co., Ltd., East China University of Science and Technology.

The main drafters of this Standard: Li Junying, Feng, Zhao Yong, Wu Shiming, Lin Qilve, Huang Tao, Qiu Xiaolai, Zhang Meiling, He Gen, Zhang Lanzhu.

The previous editions of the standard replaced by this Standard are as follows:

- GB/T 1047-1970, GB/T 1047-1995, GB/T 1047-2005.

Pipework components -

Definition and selection of nominal size

1 Scope

This Standard gives the definition of DN (nominal size) of pipework components, and specifies the nominal size series used for pipework components.

This Standard applies to pipework components which use the DN designation system.

2 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

2.1

nominal size

An alphanumeric designation of size for components of a pipework system, which is used for reference purposes. It comprises the letters DN followed by a dimensionless whole number.

NOTE 1: This dimensionless number is directly related to the physical size, in millimetres, of the bore or outside diameter of the end connections.

NOTE 2: The number following the letters DN does not represent a measurable value and should not be used for calculation purposes except where specified in the relevant standard.

3 DN series and selection

3.1 The preferred DN values are as follows:

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