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GB/T 1048-2005

Replacing GB/T 1048-1990

Pipework components - Definition and selection of PN

管道元件 PN（公称压力）的定义和选用

(ISO/CD 7268:1996, MOD)

Issued on: January 13, 2005

Implemented on: August 01, 2005

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

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Foreword

This standard modifies and adopts ISO/CD 7268:1996 “Pipework components - Definition and selection of PN”.

The local differences between this standard and ISO/CD 7268:1996 are as follows:

- At the end of clause 3, ADD that “note: it is allowed to select other PN values if necessary”.

This standard is a revision of GB/T 1048-1990 “Nominal pressure for pipe components”. The main changes are as follows:

- CHANGE the standard name;
- MODIFY the definition of PN (nominal pressure) in accordance with ISO/CD 7268:1996 and BS EN 1333:1997 “Pipework components - Definition and selection of PN”;
- DELETE the marking method of the nominal pressure in the original standard, DELETE the unit of PN value (MPa), CLARIFY the basic concept that PN (nominal pressure) is only “the marking of the combination of letter and number for reference purposes which is related to the mechanical properties of the piping system components”, further DESCRIBE that the number followed the letter PN does not represent the measured value and cannot be used for calculation purposes.
- MODIFY the representation of the nominal pressure series, such as PN 4.0 MPa in the original standard, which is now marked as: PN40; SIMPLIFY the value of the PN series, that is, deleting the non-commonly used nominal pressure values which are not included in the original standard ISO/CD 7268:1996, such as PN0.05, PN0.1, PN0.4, PN28.0, PN335.0 (MPa), etc.

This standard replaces GB/T 1048-1990.

This standard was proposed by the China Machinery Industry Federation.

This standard shall be under the jurisdiction of the National Pipeline Standardization Technical Committee.

Drafting organizations of this standard: Mechanical Science Research Institute, East China University of Science and Technology, Shaoxing High-strength Fastener Factory, China Metallurgical Jingcheng Engineering Technology Co., Ltd., Zhongnan Electric Power Design Institute, Sinopec Engineering Construction Company, National Chemical Equipment Technology Center Station, China Shipbuilding Industry Comprehensive Technology Research

Pipework components - Definition and selection of PN

1 Scope

This standard specifies the definition and series of PN (nominal pressure).

This standard applies to pipework components as specified in the relevant standards which use the PN marking.

2 Definition

PN: Marking of the combination of letters and numbers used for reference in relation to the mechanical properties and dimensional characteristics of piping system components. It consists of the letter PN followed by a dimensionless number.

Note 1: The number followed by the letter PN does not represent the measured value and cannot be used for calculation purposes, unless otherwise specified in the relevant standards.

Note 2: The term PN has no meaning except to be related to the relevant pipe component standard.

Note 3: The allowable pressure of the pipework element depends on the PN value of the component, the material and design, the allowable operating temperature, etc. The allowable pressure is given in the pressure-temperature rating table of corresponding standard.

Note 4: All pipework components with the same PN and DN values shall have the same mating dimensions as the matching flange.

3 PN series

The PN value shall be selected from the following series:

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