

DRAFT INTERNATIONAL STANDARD ISO/DIS 7268

ISO/TC 5/SC 10 Secretariat: ANSI

Voting begins on: Voting terminates on:

2008-08-19 2009-01-19

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

Pipe components — Definition and selection of PN, Class and K

Tuyauterie — Définition et sélection des désignations PN, Classe et K

[Revision of first edition (ISO 7268:1983)]

ICS 23.040.01

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Contents

Forward		iii	
Introduction			
Scope		1	
Normative references			
Terms and definitions		2	
Selection			
Bibliography	· / /		

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Foreword

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Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75% of the member bodies casting a vote. This International

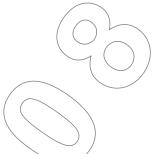
Standard ISO 7268: 2008 has been prepared by Technical Committee ISO/TC 5, Ferrous Metal Pipes and Metallic Fittings, Subcommittee SC10. Teh STANDARD PREVIEW

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Introduction

This International Standard, ISO 7268: 2008, makes normative reference to a family of three distinct pipework component pressure rating series, each of which has sectorial relevance in noteworthy global marketplaces. Each is widely used within these regional entities. Each of these individual pressure rating series, taken separately, represents a very large installed component population and as such, it is not an economically viable option to compel replacement with a single series.

ISO 7268: 2008 replaces ISO 7268: 19 ?? While ISO 7268 remained unchanged, while sectorial flange standards have kept pace and by doing so maintained market prominence. This revision, ISO 7268: 2008, by reference, includes coverage for three of the most prominent sectorial component series, each endowed with significant market presence. This International Standard, ISO 7268: 2008, is meant to more readily accommodate and expand regional and national standardization needs by providing ready access to a sectorial series whose requirements are contemporaneous with regional imperatives.



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Pipework components — Definition and selection of PN, Class and K

1 Scope

This International Standard specifies the terms PN, Class and K when applied to components of a pipework system, as specified in those component standards which use a PN, Class or K designation system either singly or in combination.

This International Standard specifies PN, Class and K designation numbers that are to be used.

This International Standard is applicable to components within facilities engaged in the processing or handling a wide variety of fluids including steam, pressurized water, chemical, petroleum, natural gas or related products.

EXAMPLES Steam power plant, petroleum refinery, loading terminal, natural gas processing plant (including liquefied natural gas facilities), offshore oil and gas production platforms, chemical plant, bulk plant, compounding plant, tank farm

This International Standard is also applicable to packaged equipment piping which interconnects individual pieces or stages of equipment within a packaged equipment assembly for use within facilities engaged in the processing or handling a variety of fluids including steam, chemical, petroleum, natural gas or related products.

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2 Terms and definitions

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2.1 PN https://standards.jtch.ai/catalog/standards/sist/eb572dfc-5938-4f0e-9350-07c34fc58a58/iso-dis-7268

alphanumeric designation that is used for reference purposes, comprising the letters PN followed by a dimensionless number relating to component pressure/temperature capability, taking into account component material mechanical properties and component dimensional characteristics.

NOTE 1 The dimensionless number does not represent a measurable value and is not used for calculation purposes except where specified in a relevant component standard.

NOTE 2 Prefix PN usage is applicable to components bearing "DN" nominal size designations according to ISO 6708.

NOTE 3 Reference to PN is meaningful only when it is related to a relevant component. The allowable pressure for a component having a PN number depends on the component material and its application temperature and is to be found in tables of pressure/temperature ratings in the reference component standard.

2.2 Class

alphanumeric designation that is used for reference purposes, comprising the letters Class followed by a dimensionless whole number relating to component pressure/temperature capability, taking into account component material mechanical properties and component dimensional characteristics.

NOTE 1 The dimensionless number does not represent a measurable value and is not used for calculation purposes except where specified in a relevant standard.

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NOTE 2 The prefix Class usage is applicable to components bearing "NPS" nominal size designations according to ISO 6708.

NOTE 3 Reference to Class is meaningful only when it is related to a relevant component. The allowable pressure for a component having a Class number depends on the component material and its application temperature and is to be found in tables of pressure/temperature ratings in the reference component standard.

Note 4 For Class designated components, the dimensionless number is frequently used without the associated word "Class" included.

2.3 K

alphanumeric designation that is used for reference purposes, comprising the letter K preceded by a dimensionless whole number, relating to component pressure/temperature capability, taking into account component material mechanical properties and component dimensional characteristics.

NOTE 1 The dimensionless number does not represent a measurable value and is not used for calculation purposes except where specified in a relevant component standard.

NOTE 2 Prefix K usage is applicable to components bearing "A" nominal size designations according to ISO 6708.

Note 3 Reference to K is meaningful only when it is related to a relevant component. The allowable pressure for a component having a K number depends on the component material and its application temperature and is to be found in tables of pressure/temperature ratings in the reference component standard.

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3 Selection

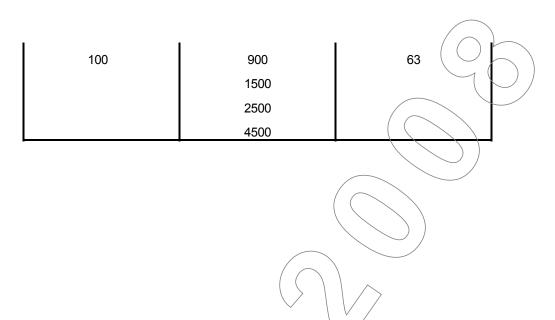
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The numeric terms that apply for the PN, Class and K pressure designations shall be selected from Table 1. There is no direct correspondence between the series for PN, Class, and K.

Table 1 — Numeric désignation listing

Designation numbers		
PN series	Class-series	K-series
2,5	75	2
6	125	5
10	150	10
()) 16	250	16
25	300	20
40	400	30
63	600	40

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