



DRAFT INTERNATIONAL STANDARD ISO/DIS 7268

ISO/TC 5/SC 10

Secretariat: ANSI

Voting begins on:
2008-08-19

Voting terminates on:
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

iTeh STANDARD PREVIEW (standards.iteh.ai)

[ISO/DIS 7268](#)

[https://standards.iteh.ai/catalog/standards/sist/eb572dfc-5938-4f0e-9350-](https://standards.iteh.ai/catalog/standards/sist/eb572dfc-5938-4f0e-9350-07c34f558a58/iso-dis-7268)

In accordance with the provisions of Council Resolution 15/1993 this document is circulated in the English language only.

Conformément aux dispositions de la Résolution du Conseil 15/1993, ce document est distribué en version anglaise seulement.

To expedite distribution, this document is circulated as received from the committee secretariat. ISO Central Secretariat work of editing and text composition will be undertaken at publication stage.

Pour accélérer la distribution, le présent document est distribué tel qu'il est parvenu du secrétariat du comité. Le travail de rédaction et de composition de texte sera effectué au Secrétariat central de l'ISO au stade de publication.

THIS DOCUMENT IS A DRAFT CIRCULATED FOR COMMENT AND APPROVAL. IT IS THEREFORE SUBJECT TO CHANGE AND MAY NOT BE REFERRED TO AS AN INTERNATIONAL STANDARD UNTIL PUBLISHED AS SUCH.

IN ADDITION TO THEIR EVALUATION AS BEING ACCEPTABLE FOR INDUSTRIAL, TECHNOLOGICAL, COMMERCIAL AND USER PURPOSES, DRAFT INTERNATIONAL STANDARDS MAY ON OCCASION HAVE TO BE CONSIDERED IN THE LIGHT OF THEIR POTENTIAL TO BECOME STANDARDS TO WHICH REFERENCE MAY BE MADE IN NATIONAL REGULATIONS.

RECIPIENTS OF THIS DRAFT ARE INVITED TO SUBMIT, WITH THEIR COMMENTS, NOTIFICATION OF ANY RELEVANT PATENT RIGHTS OF WHICH THEY ARE AWARE AND TO PROVIDE SUPPORTING DOCUMENTATION.

PDF disclaimer

This PDF file may contain embedded typefaces. In accordance with Adobe's licensing policy, this file may be printed or viewed but shall not be edited unless the typefaces which are embedded are licensed to and installed on the computer performing the editing. In downloading this file, parties accept therein the responsibility of not infringing Adobe's licensing policy. The ISO Central Secretariat accepts no liability in this area.

Adobe is a trademark of Adobe Systems Incorporated.

Details of the software products used to create this PDF file can be found in the General Info relative to the file; the PDF-creation parameters were optimized for printing. Every care has been taken to ensure that the file is suitable for use by ISO member bodies. In the unlikely event that a problem relating to it is found, please inform the Central Secretariat at the address given below.

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[ISO/DIS 7268](https://standards.iteh.ai/catalog/standards/sist/eb572dfc-5938-4f0e-9350-07c34fc58a58/iso-dis-7268)

<https://standards.iteh.ai/catalog/standards/sist/eb572dfc-5938-4f0e-9350-07c34fc58a58/iso-dis-7268>

Copyright notice

This ISO document is a Draft International Standard and is copyright-protected by ISO. Except as permitted under the applicable laws of the user's country, neither this ISO draft nor any extract from it may be reproduced, stored in a retrieval system or transmitted in any form or by any means, electronic, photocopying, recording or otherwise, without prior written permission being secured.

Requests for permission to reproduce should be addressed to either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
Web www.iso.org

Reproduction may be subject to royalty payments or a licensing agreement.

Violators may be prosecuted.

iTeh STANDARD PREVIEW
(standards.iteh.ai)

ISO/DIS 7268

<https://standards.iteh.ai/catalog/standards/sist/eb572dfc-5938-4f0e-9350-07c34fc58a58/iso-dis-7268>

Contents

Forward..... iii

Introduction..... iv

Scope..... 1

Normative references..... 1

Terms and definitions 2

Selection..... 3

Bibliography..... 4

iTeh STANDARD PREVIEW
(standards.iteh.ai)

ISO/DIS 7268

<https://standards.iteh.ai/catalog/standards/sist/eb572dfc-5938-4f0e-9350-07c34fc58a58/iso-dis-7268>

DRAFT

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 3.

Attention is drawn to the possibility that some of the elements of this International Standard may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

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.

STANDARD PREVIEW
(standards.iteh.ai)

ISO/DIS 7268

<https://standards.iteh.ai/catalog/standards/sist/eb572dfc-5938-4f0e-9350-07c34fc58a58/iso-dis-7268>

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.

iTeh STANDARD PREVIEW
(standards.iteh.ai)

ISO/DIS 7268

<https://standards.iteh.ai/catalog/standards/sist/eb572dfc-5938-4f0e-9350-07c34fc58a58/iso-dis-7268>

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.

(standards.iteh.ai)

2 Terms and definitions

ISO/DIS 7268

<https://standards.iteh.ai/catalog/standards/sist/eb572dfc-5938-4f0e-9350-07c34fc58a58/iso-dis-7268>

2.1 PN

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.

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.

ISO/DIS 7268
<https://standards.iteh.ai/catalog/standards/sist/eb572dfc-5938-4f0e-9350-07c34fc58a58/iso-dis-7268>

3 Selection

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

100	900	63
	1500	
	2500	
	4500	

iTeh STANDARD PREVIEW
(standards.iteh.ai)

ISO/DIS 7268

<https://standards.iteh.ai/catalog/standards/sist/eb572dfc-5938-4f0e-9350-07c34fc58a58/iso-dis-7268>

DRAFT

2009