



SLOVENSKI STANDARD
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Kovinski industrijski cevovodi - 7. del: Smernice za ugotavljanje skladnosti

Metallic industrial piping - Part 7: Guidance on the use of conformity assessment procedures

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ICS:

77.140.75	Jeklene cevi in cevni profili za posebne namene	Steel pipes and tubes for specific use
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Metallic industrial piping – Part 7: Guidance on the use of conformity assessment procedures

This Technical Report was approved by CEN on 22 May 2002. It has been drawn up by the Technical Committee CEN/TC 267.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

Management Centre: rue de Stassart, 36 B-1050 Brussels

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Foreword

This document (CEN/TR 13480-7:2002) has been prepared by Technical Committee CEN/TC 267 "Industrial piping and pipelines", the secretariat of which is held by AFNOR.

This European Standard consists of the following Parts:

- *Part 1: General*
- *Part 2: Materials*
- *Part 3: Design*
- *Part 4: Fabrication and installation*
- *Part 5: Testing and Inspection*
- *Part 6: Additional requirements for buried piping*
- *Part 7: Guidance on the use of conformity assessment procedures*

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1 Scope

This Technical Report gives guidance on the use of conformity assessment procedures for industrial piping and pipelines as covered by Article 1, § 2.1.1 of the Pressure Equipment Directive (PED). The PED requires all pressure equipment falling within its scope to have its design and manufacture assessed for conformity in accordance with a series of conformity assessment procedures given in Article 10 of the PED. These procedures are described in detail in Annex III of the PED to which reference must be made in order to ensure compliance. The following summary is given for guidance purposes only.

2 Normative references

This Technical Report incorporates, by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text, and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this Technical Report only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

EN ISO 9000:2000, *Quality management systems — Fundamentals and vocabulary (ISO 9000:2000)*.

EN ISO 9001:2000, *Quality management systems — Requirements (ISO 9001:2000)*.

3 Terms and definitions

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

3.1 responsible authority

competent organisation which is independent of the manufacturer. For application within the jurisdiction of the European Union this organisation may be a Notified Body, a recognised third-party organisation or a user inspectorate where appropriate, according to module chosen and designated by a member state. For the purpose of this standard all these organisations have been collectively termed "responsible authorities"

3.2 fluid

gases, liquids and vapours in pure phase as well as mixtures thereof. A fluid may contain a suspension of solids

4 Application of the PED

4.1 General

According to the PED the manufacturer shall determine for each industrial piping and pipeline

- a) the hazard category of the industrial piping and pipeline;
- b) the procedures to be applied to assess conformity of the industrial piping and pipeline with the requirements of the PED.

4.2 Classification of pressure equipment in hazard categories

For the purpose of classification of pressure equipment in hazard categories, fluids (gas or liquid) are divided into two groups:

- 1) Group 1 comprises dangerous fluids (under Council Directive 67/548/EEC (27 June 1967), Article 2 (2)), i.e. fluids defined as:
 - explosive;
 - extremely flammable;
 - highly flammable;
 - flammable (where the maximum allowable temperature is above flashpoint);
 - very toxic;
 - toxic;
 - oxidizing.
- 2) Group 2 comprises all other fluids not referred to in Group 1.

In combination with the internal volume (V) and/or the maximum allowable pressure (PS) of the vessel this leads to 4 specific cases:

- a) Fluids in Group 1; Industrial piping for gases, liquefied gases, gases dissolved under pressure, vapours and also liquids whose vapour pressure at the maximum allowable temperature is greater than 0,5 bar above normal atmospheric pressure (1 013 mbar), within the following limits: $DN > 25$;
- b) Fluids in Group 2; Industrial piping, liquefied gases, gases dissolved under pressure, vapours and also liquids whose vapour pressure at the maximum allowable temperature is greater than 0,5 bar above normal atmospheric pressure (1 013 mbar), within the following limits: $DN > 32$ and $PS \times DN > 1\ 000$ bar;
- c) Fluids in Group 1; Industrial piping for liquids having a vapour pressure at the maximum allowable temperature of not more than 0,5 bar above normal atmospheric pressure (1 013 mbar), within the following limits: $DN > 25$ and $PS \times DN > 2\ 000$ bar;
- d) Fluids in Group 2; Industrial piping for liquids having a vapour pressure at the maximum allowable temperature of not more than 0,5 bar above normal atmospheric pressure (1 013 mbar), within the following limits: $PS > 10$ bar and $DN > 200$ and $PS \times DN > 5\ 000$ bar.

Industrial piping are classified in hazard categories I to III according to one of the relevant cases a) to d) and their nominal diameter and maximum allowable pressure. The classification has been defined in the Figures A.1 to A.4.

4.3 Conformity assessment procedures

4.3.1 General

The manufacturer shall subject each item of equipment to a procedure to assess the conformity with the essential requirements of the PED. Annex B describes the conformity assessment requirements of the PED. It is applicable to piping systems which are to be installed in an EU Member State.

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4.3.2 Choice of conformity assessment procedures

The conformity assessment procedures to be applied to an item or pressure equipment with a view to affixing the CE marking shall be determined by the hazard category in which the equipment is classified. The procedure that are to be applied for the various hazard categories are given in table B.2-1.

The piping manufacturer has the option of selecting between a procedure of conformity assessment involving a certified quality assurance system (if available) and one which does not.

The manufacturer may also choose to apply one of the procedures which apply to a higher category, if available.

4.3.3 Conformity assessment procedures and the involvement of Responsible Authorities

The manufacturer is responsible for ensuring that the requirements of this Technical Report, including inspection and testing activities, are fully applied. If a CE marking is sought, it is a requirement of the PED that (in many cases) there is a supplementary involvement of a Responsible Authority (e.g. Notified Body) to ensure the requirements of the PED are met.

The kind and extent of responsible authority involvement in inspection and testing activities will depend upon the conformity assessment procedure chosen by the manufacturer. For each appropriate conformity assessment procedure the participation is indicated in Table C.1.

Annex C has been provided in order to give guidance to the manufacturer so that he may be aware of the various stages where a responsible authority may be involved. Details of the inspection and testing activities are described in subsequent sub-clauses, the reference of which is given in Table C.1.

5 Subcontracting

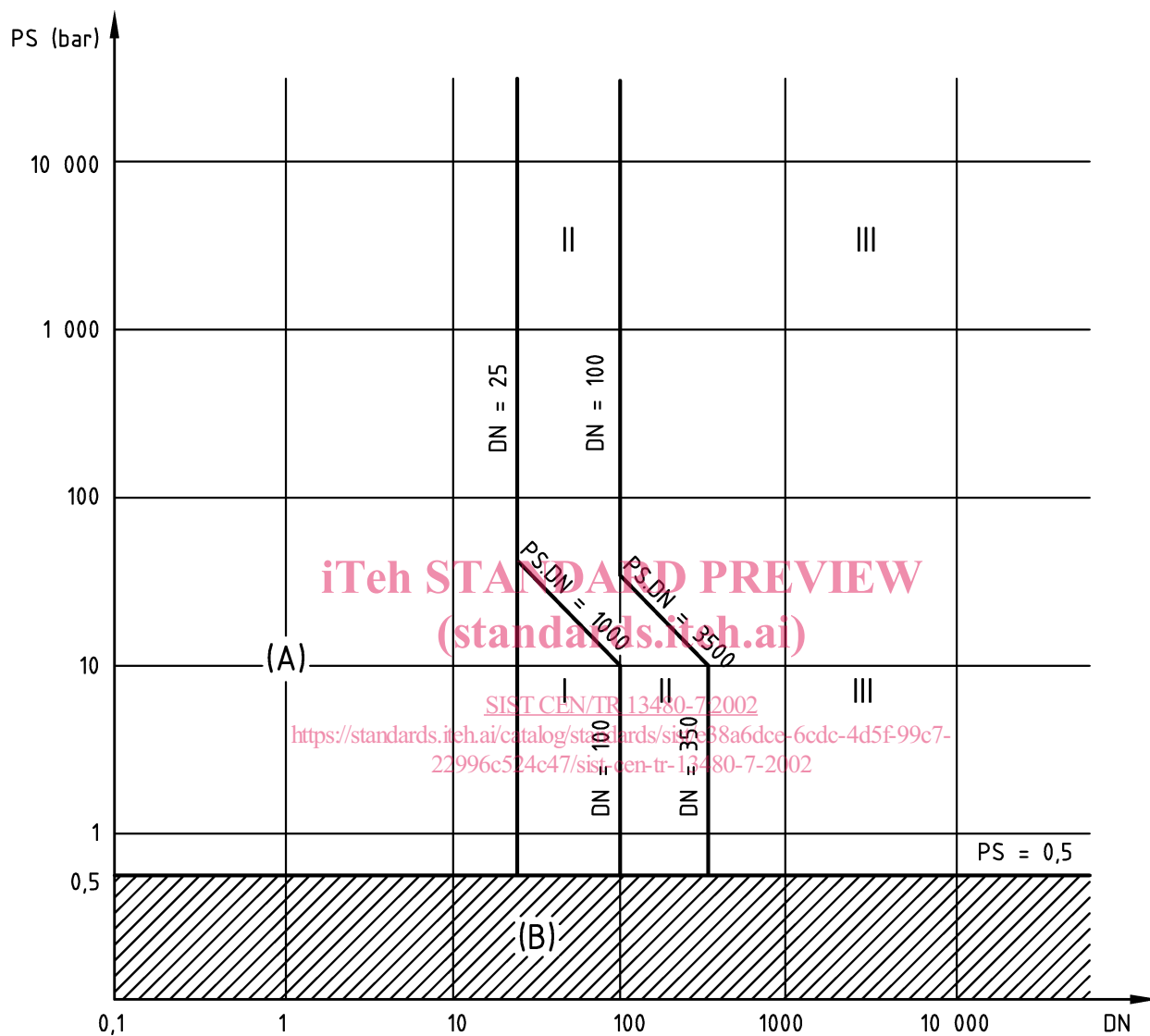
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Where the manufacturer is producing the equipment under a conformity assessment procedure requiring intervention of a responsible authority, the manufacturer shall inform the responsible authority of his intention to subcontract so that the responsible authority has the opportunity to take part in the subcontractor surveillance.

NOTE Where the manufacturer is producing the equipment under a conformity assessment procedure based on quality assurance, e.g. D, H, H1, the controls the manufacturer applies over subcontractors shall be described in his appropriate quality system.

Annex A

Conformity assessment tables

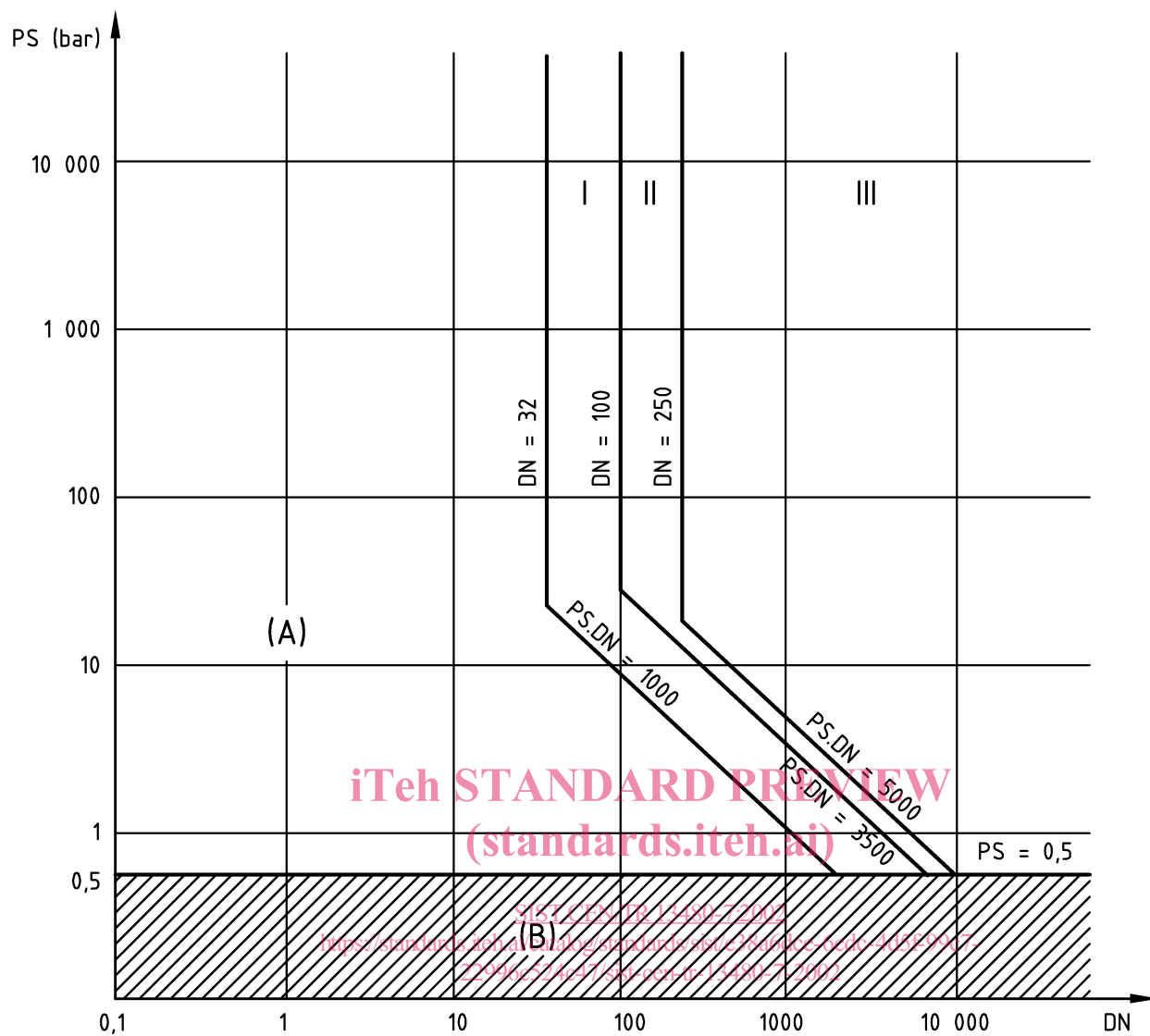


Gases, liquefied gases, gases dissolved under pressure, vapours and those liquids whose vapor pressure at the maximum allowable temperature is greater than 0,5 bar above normal atmospheric pressure (1013 mbar) for fluids in group 1.

(A) see 4.2 and (B) see 4.3

Figure A.1 — Classification of piping system for group 1 gases

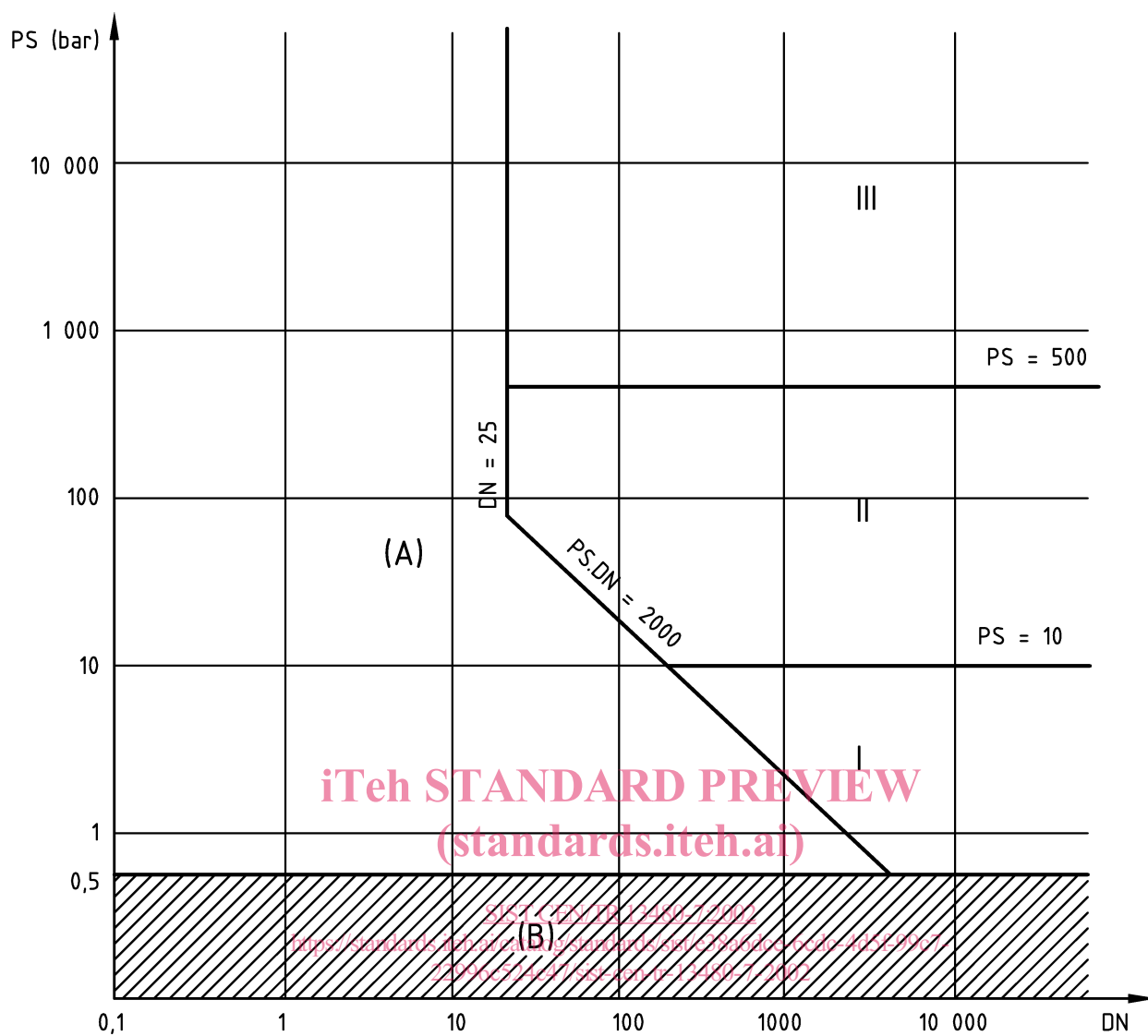
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Gases, liquified gases, gases dissolved under pressure, vapours and those liquids whose vapour pressure at the maximum allowable temperature is greater than 0,5 bar above normal atmospheric pressure (1013 mbar) for fluids in group 2.

(A) see 4.2 and (B) see 4.3

Figure A.2 — Classification of piping system for group 2 gases

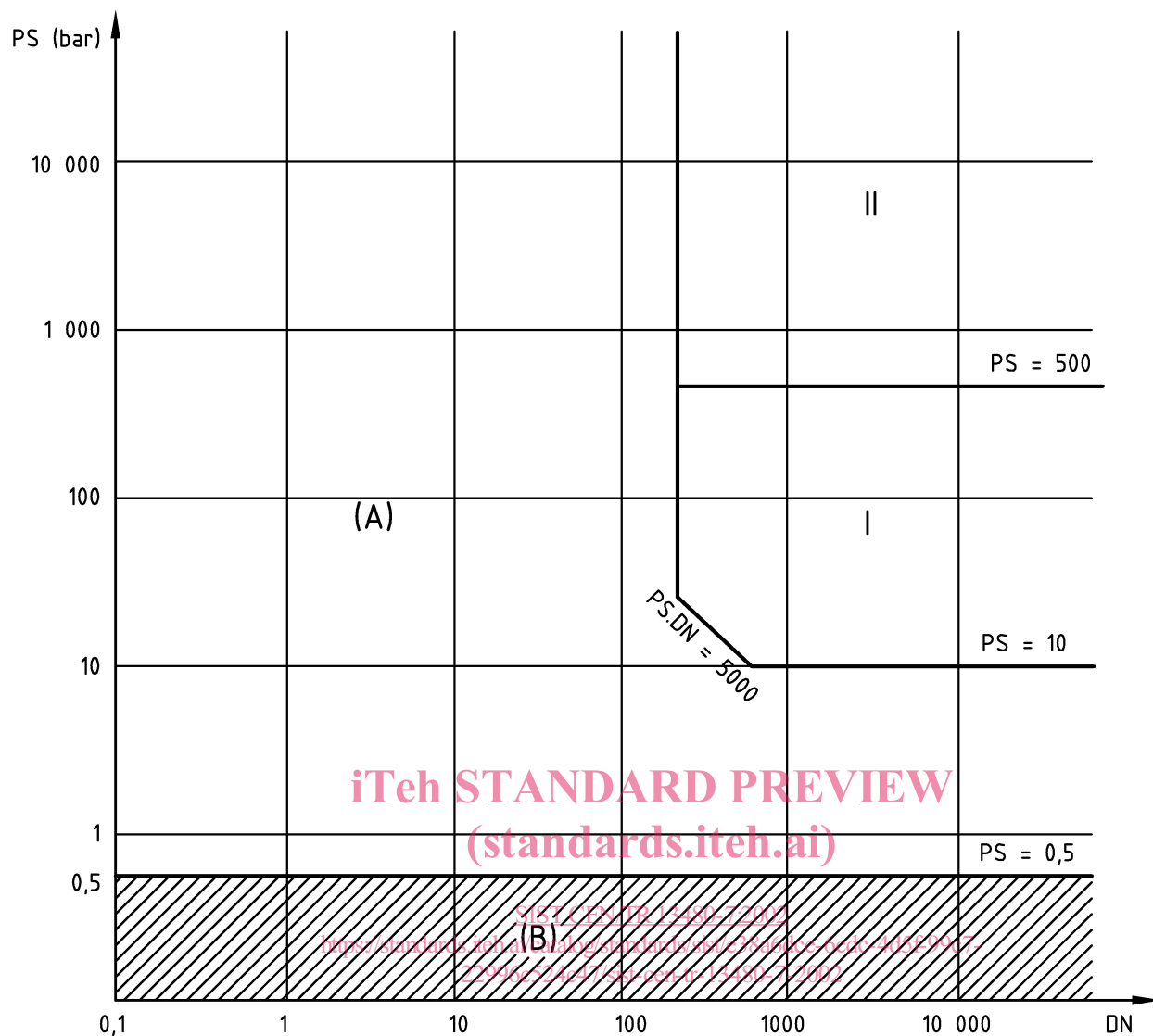


Liquids having a vapour pressure at the maximum allowable temperature of not more than 0,5 bar above normal atmospheric pressure (1013 mbar) for fluids in group 1.

(A) see 4.2 and (B) see 4.3

Figure A.3 — Classification for piping system for group 1 liquids

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Liquids having a vapor pressure at the maximum allowable temperature of not more than 0,5 bar above normal atmospheric pressure (1013 mbar) for fluids in group 2.

(A) see 4.2 and (B) see 4.3

Figure A.4 — Classification for piping system for group 2 liquids