Disclosure to Promote the Right To Information

Whereas the Parliament of India has set out to provide a practical regime of right to information for citizens to secure access to information under the control of public authorities, in order to promote transparency and accountability in the working of every public authority, and whereas the attached publication of the Bureau of Indian Standards is of particular interest to the public, particularly disadvantaged communities and those engaged in the pursuit of education and knowledge, the attached public safety standard is made available to promote the timely dissemination of this information in an accurate manner to the public.

“जानने का अधिकार, जीने का अधिकार”
Mazdoor Kisan Shakti Sangathan
“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ”
Jawaharlal Nehru
“Step Out From the Old to the New”

Indian Standard

ISO GENERAL PURPOSE METRIC SCREW THREADS

PART 2 GENERAL PLAN

(Second Revision)

ICS 21.040.01

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BUREAU OF INDIAN STANDARDS
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG
NEW DELHI 110002

August 2001

Price Group 3
NATIONAL FOREWORD

This Indian Standard (Part 2) (Second Revision) which is identical with ISO 261:1998 'ISO general purpose metric screw threads — General plan’ issued by the International Organization for Standardization (ISO) was adopted by the Bureau of Indian Standards on the recommendation of the Engineering Standards Sectional Committee and approval of the Basic and Production Engineering Division Council.

This standard was originally issued in 1967 and subsequently revised in 1976. The first revision was based on ISO 261:1973. This second revision has been issued by adopting ISO 261:1998.

This Committee, responsible for preparation of Indian Standards on Screw Threads, decided to revise all the six parts of IS 4218 in the following manner:


The text of ISO Standard has been approved as suitable for publication as an Indian Standard without deviations. In the adopted standard, certain conventions are not identical to those used in Indian Standards. Attention is especially drawn to the following:

a) Wherever the words 'International Standard' appear referring to this standard, they should be read as 'Indian Standard'.

b) Comma (,) has been used as a decimal marker while in Indian Standards, the current practice is to use a full point (.) as the decimal marker.

In this adopted standard, reference appears to certain International Standards for which Indian Standards also exist. The corresponding Indian Standards which are to be substituted in their place are listed below along with their degree of equivalence for the editions indicated:

<table>
<thead>
<tr>
<th>International Standard</th>
<th>Corresponding Indian Standard</th>
<th>Degree of Equivalence</th>
</tr>
</thead>
</table>

(Continued on third cover)
Indian Standard
ISO GENERAL PURPOSE METRIC SCREW THREADS
PART 2 GENERAL PLAN
(Second Revision)

1 Scope
This International Standard specifies ISO general purpose metric screw threads (M) having basic profile according to ISO 68-1. Basic dimensions are given in ISO 724. For tolerances see ISO 965-1.

2 Normative references
The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.


3 Definitions
For the purposes of this International Standard, the definitions given in ISO 5408 apply.

4 Designation
A screw thread in conformity with this International Standard shall be designated according to ISO 965-1.
5 Choice of diameter and pitch

5.1 Choose, for preference, diameters in column 1 of table 2 and, if necessary, in column 2 and then in column 3.

Diameter 35 mm, and pitch 1,25 mm of diameter 14 mm shall be used only for the special cases indicated in the footnotes.

Pitches shown in parentheses are to be avoided as far as possible.

5.2 The words "coarse" and "fine" are given in order to conform to usage. No concept of quality shall, however, be associated with these words.

It shall be understood that the "coarse" pitches are the largest metric pitches used in current practice.

5.3 For the diameter (or the diameter range) selected, choose one of the pitches shown on the corresponding line (or lines).

5.4 If screw threads finer than those appearing in table 2 are found necessary, only the following pitches shall be used:

3 mm; 2 mm; 1,5 mm; 1 mm; 0,75 mm; 0,5 mm; 0,35 mm; 0,25 mm; 0,2 mm

When selecting such pitches, take into account the fact that there is increasing difficulty in complying with tolerances as the diameter is increased for a given pitch. It is suggested, that diameters larger than those shown in table 1 should generally not be used with the pitches indicated.

### Table 1 — Maximum nominal diameter

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Dimensions in millimetres
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(continued)
### Table 2 (concluded)

Dimensions in millimetres

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a Only for spark plugs for engines.
b Only for locking nuts for bearings.
This standard (Part 2) covers the ‘General plan for ISO general purpose metric screw threads’. The other three parts of standard are listed below:

<table>
<thead>
<tr>
<th>IS No.</th>
<th>Title</th>
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</thead>
</table>

Indian Standards published on tolerances for ISO general purpose metric screw threads are listed below:

<table>
<thead>
<tr>
<th>IS No.</th>
<th>Title</th>
</tr>
</thead>
</table>

In reporting the results of a test or analysis made in accordance with this standard, if the final value, observed or calculated, is to be rounded off, it shall be done in accordance with IS 2: 1960 ‘Rules for rounding off numerical values (revised)’. 
Bureau of Indian Standards

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Review of Indian Standards

Amendments are issued to standards as the need arises on the basis of comments. Standards are also reviewed periodically; a standard along with amendments is reaffirmed when such review indicates that no changes are needed; if the review indicates that changes are needed, it is taken up for revision. Users of Indian Standards should ascertain that they are in possession of the latest amendments or edition by referring to the latest issue of ‘BIS Catalogue’ and ‘Standards: Monthly Additions’.

This Indian Standard has been developed from Doc : No. BP 20 (0460).

Amendments Issued Since Publication

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