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SPECIFICATION FOR ISO METRIC SCREW THREADS

Part VI. Limits of Sizes for Commercial Bolts and Nuts

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BUREAU OF CEYLON STANDARDS

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S. L. S. 268 : 1974

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SRI LANKA STANDARD SPECIFICATION FOR ISO METRIC SCREW THREADS

Part VI. Limits of sizes for commercial bolts and nuts (diameter range 1 to 39 mm)

FOREWORD

This Sri Lanka Standard Specification was prepared by the Drafting Committee on Metric Screw Threads. It was approved by the Mechanical Engineering Divisional Committee of the Bureau of Ceylon Standards and was authorised for adoption and publication by the council of the Bureau on 21st May, 1974.

Although this standard is not a revision of C.S. 96: Specification for Dimensions of parallel coarse screw thread of Whitworth form", this standard will replace it in due course.

This Standard is being issued in different parts as under:

- Part I — Basic and Design Profiles
- Part II — Pitch/Diameter combinations
- Part III — Basic Dimensions
- Part IV — Tolerancing System
- Part V — Tolerances
- Part VI — Limits of sizes for commercial bolts and nuts.

This standard (Part VI) is based on ISO/R965/11. "ISO General Purpose Metric Screw Threads — Tolerances — Limits of sizes for commercial bolt and nut threads, medium quality" issued by the international organization for standardization. In the preparation of this standard the assistance derived from the publications of the Indian Standards Institution is acknowledged.

This part of the standard has been prepared in order to make available, in convenient form, details of those ISO metric screw threads which will be commonly required for general purpose applications. Only the coarse pitch series of thread is covered in this standard. Limits are specified for three classes of fit namely Fine, Medium and Coarse for nominal length of engagement in the diameter range 1 to 39 mm.

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, shall be rounded off in accordance with C.S. 102. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

1. SCOPE

This standard (Part VI) specifies the limits of sizes for ISO Metric Coarse pitch series Threads in the diameter range 1 to 39 mm for commercial bolts and nuts.

2. TOLERANCE CLASSES

2.1 The tolerance classes used for commercial bolts and nuts shall be as given below:

<i>Tolerance Quality</i>	<i>Tolerance Class</i>	
	Nut	Bolt
Fine	5 H	4 h
Medium	6 H	6 g
Coarse	7 H	8 g

3. SELECTION OF TOLERANCE QUALITIES

For the selection of tolerance qualities, the following general rules shall apply.

- Fine : For precision threads when little variation of fit character is required.
- Medium : For general use.
- Coarse : For cases where manufacturing difficulties can arise, for example, when treading hot rolled bars and long blind holes.

4. DESIGNATION

- 4.1 A screw thread designation shall consist of size designation and tolerance class designation.
 - 4.1.1 A coarse nut thread of nominal diameter 8 mm and tolerance class 6 H shall be designated as M 8 — 6 H
 - 4.1.2 A coarse bolt thread of nominal diameter 8 mm and tolerance class 6g shall be designated as M8-6g
- 4.2 A fit between threaded parts, shall be indicated by the nut thread tolerance class, followed by bolt thread tolerance class separated by a stroke.

Example : M8 — 6H/6g.

5. DIMENSIONS AND TOLERANCES

- 5.1 The basic dimensions are given in part III of this standard.
- 5.2 The limits of sizes for commercial nuts and bolts for tolerance classes specified in 2.1 shall be as given in Tables 1 to 6.
- 5.3 For coated threads the tolerances apply to the parts before coating, unless otherwise stated. After coating, the actual thread profile should not in any point transgress the maximum material limits for position H or h respectively.