

Metric buttress threads

General plan

DIN

513

Part 2

Metrisches Sägewinde; Gewindereihen

Supersedes January 1975 edition.

Dimensions in mm

1 Introduction

This standard specifies metric buttress threads with profiles complying with DIN 513 Part 1.

It is left to the discretion of each branch of industry and each plant to select from this standard those buttress threads whose diameter/pitch combinations meet their particular requirements.

2 Selection of diameter and pitch (See table in clause 4.)

The diameters to be selected shall preferably be from series 1, and if necessary from series 2.

The diameters in series 3 shall be avoided for new designs.

The pitches associated with a specific diameter are given in the corresponding line. The pitches to be preferred are framed.

If buttress threads with diameters different from those given in the table are required, one of the pitches associated with the nearest nominal diameter in the table shall be selected.

3 Designation

Single-start metric buttress threads conforming to this standard shall be designated by the letter S followed by the values of the nominal thread diameter and the lead of the single-start thread (here, lead $P = \text{pitch } P$), in mm, separated by the sign \times 1).

Example of designation:

S 40 x 7

Multiple-start metric buttress threads conforming to this standard shall be designated by the letter S followed by the values of the nominal thread diameter and the lead P_h of the multiple-start thread, in mm, the letter P and the value of pitch, in mm.

Example of designation:

S 40 x 14 P7

Number of starts = $\frac{\text{lead } P_h}{\text{pitch } P} = \frac{14}{7}$ in the example. Thus, it is a double-start thread.

- 1) For buttress threads with no tolerance indication, the medium tolerance quality shall apply, i.e. tolerance zone 7 e for external threads and 7 H for internal threads. If a different tolerance zone is required, this shall be indicated; the designation for an external thread of tolerance zone 8 e shall then read: S 40 x 7 – 8e.

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