

Drawings

## TOLERANCES OF FORM AND POSITION

Symbols, Generalities, Indications on drawings

Corresponding to

ISO R 1101

If the tolerance frame cannot be connected in a clear and simple manner with the datum feature, a capital letter (different for every datum feature) is used (see Fig. 17 and 18). This capital letter is enclosed in a frame connected to the datum feature as described in the first part of this clause.

**Remarks:**

- a) *Using the axis as datum feature is a functional requirement and not a dimension indication. Under no circumstances should it be assumed that this indicates producing the component between centres.*
- b) *Wherever possible, the feature which serves in the functioning of the workpiece should be chosen as the datum feature.*
- c) *In certain cases it is necessary to state the position of certain points which temporarily serve as the datum feature for the production and testing.*

- 4.4 If two associated features are identical and there is no reason to give preference to one as a datum feature, then the tolerance is indicated as in Figure 19.

- 4.5 If the tolerance is applied to a specified length, lying anywhere, the value of this length should be added after the tolerance value and separated from it by an oblique stroke.

In the case of a surface, the same indication is used. This means that the tolerance applies to all lines of the specified length in any position and any direction (see Fig. 20).

- 4.6 If, to the tolerance on the whole feature, another tolerance of the same type but smaller and restricted on a limited length is added, the latter tolerance should be indicated below the former (see Fig. 21).

*If two different characteristics are required for a feature, the symbols can be entered in tolerance frames one below the other with only one leader line to the tolerated feature (Fig. 21a).*

- 4.7 If the tolerance is applied to a restricted part of the feature only, this should be dimensioned as shown in Figure 22 (analogous with N 001.043.70 clause 2.5).

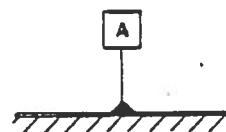


Fig. 17

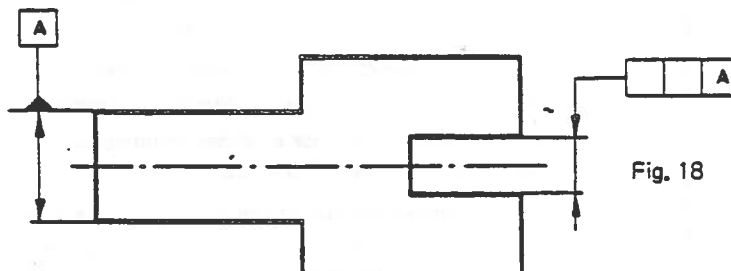


Fig. 18

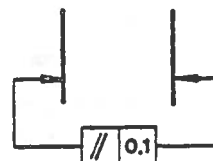


Fig. 19

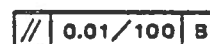


Fig. 20

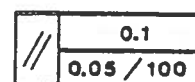


Fig. 21

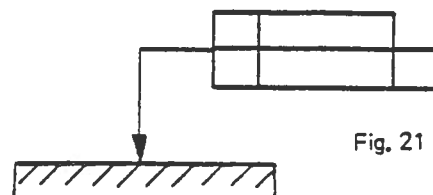


Fig. 21 a

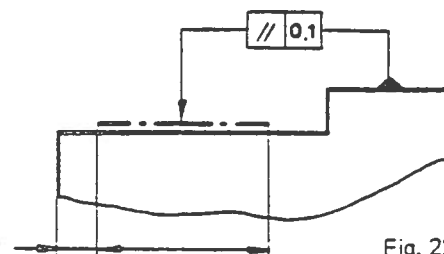


Fig. 22

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