

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.

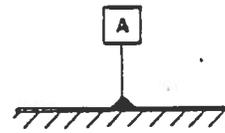


Fig. 17

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.

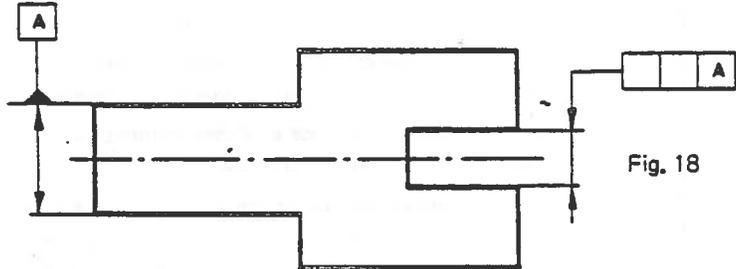


Fig. 18

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.

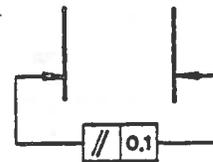


Fig. 19

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.



Fig. 20

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).

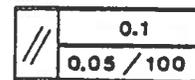


Fig. 21

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).

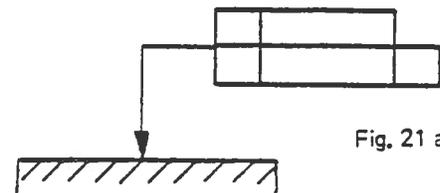


Fig. 21 a

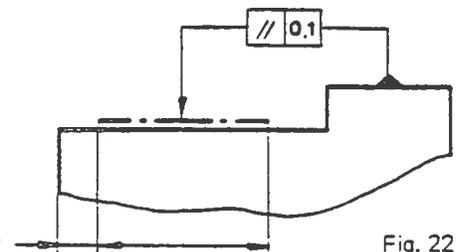


Fig. 22

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| Established by 1082 | Implemented by ANK | Modification | | | Page6..... | Continuation page...7.... |
| Date Oct. 1972 | 12.12.1972 | Nov.76 | | | N 001.145.15 E | |
| Visa Kü. Lie. | Sä. | Ba. Lie. | | | | |