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GB/T 15055-2007

Replacing GB/T 15055-1994

Permissible Stamping Variations in Dimensions without Tolerance Indication

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Foreword

This Standard replaces GB/T 15055-1994 *Permissible Stamping Variations in Dimensions without Tolerance Indication*.

This Standard refers to partial contents of GB/T 13914-2002 *Tolerance of Dimensions for Stamping Parts*, GB/T 13915-2002 *Tolerance of Angles for Stamping Parts*, GB/T 1804-2000 *General Tolerances - Tolerances for Linear and Angular Dimensions without Individual Tolerance Indications*; it adjusts some tolerances, adds terms and definitions, and makes editorial changes.

This Standard was proposed by China Machinery Industry Federation.

This Standard shall be under the jurisdiction of National Technical Committee for Standardization of Forging.

Drafting organizations of this Standard: Xi'an Jiaotong University, and Beijing Research Institute of Mechanical & Electrical Technology.

Chief drafting staffs of this Standard: Guo Cheng, Zhang Qiansheng, Wu Huaying, and Shi Dongcai.

The historical edition replaced by this Standard is as follows:

-- GB/T 15055-1994.

Permissible Stamping Variations in Dimensions without Tolerance Indication

1 Scope

This Standard specifies the stamping parts' tolerance grade and limit deviation for linear and angular dimensions without individual tolerance indication.

This Standard is applicable to the metal stamping parts; while the non-metal stamping parts can be implemented as per this Standard.

The limit deviations specified in this Standard are applicable to the non-coordinating size.

Precision stamping and extrusion parts can refer to the use of this Standard.

2 Terms and Definitions

The following terms and definitions are applicable to this Standard.

2.1 Blanking size

The linear dimension of stamping parts through the processing of punching, blanking and other separation processes (see *d*, *D* in Figure 1 and *D* in Figure 3).

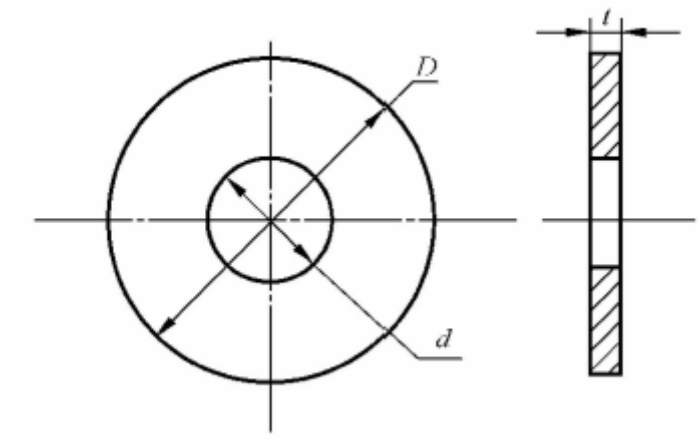

Figure 1 Blanking Size

2.2 Forming size

2.4 Forming corner radius

Corner radius's linear dimension of stamping parts through the processing of bending, deep-drawing, and other forming processes (see r, r_1, r_2, r_3 in Figure 2 and 3) .

2.5 Blanking angle

Angular dimension through the blanking processing on the panel or forming part surface (see a in Figure 4).

2.6 Bending angle

Angular dimension of stamping parts through the bending forming process (see a in Figure 2).

3 Tolerance Grade

Blanking size without tolerance indication, forming size without tolerance indication, blanking corner radius and other linear dimensions without tolerance indication, and angular dimension and limit deviation without tolerance indication can be divided into four tolerance grades, namely, f (precise grade), m (medium grade), c (coarse grade), v (very coarse grade); while the limit deviation of forming corner radius' linear dimension without tolerance indication is free of tolerance grade.

4 Limit Deviation without Tolerance Dimension Indication

4.1 Limit deviation of blanking parts' linear dimension without tolerance indication

Limit deviation of blanking parts' linear dimension without tolerance indication shall conform to the provisions of Table 1.

4.2 Limit deviation of forming parts' linear dimension without tolerance indication

Limit deviation of forming parts' linear dimension without tolerance indication shall conform to the provisions of Table 2.

4.3 Limit deviation of corner radius' linear dimension without tolerance indication

4.3.1 Limit deviation of blanking corner radius' linear dimension without tolerance indication shall conform to the provisions of Table 3.

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