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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 12212-2012

Replacing GB/T 12212-1990

**Technical drawings - Dimensions, proportions and simplified
representation for welding symbols**

技术制图 焊缝符号的尺寸、比例及简化表示法

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Foreword

This standard was drafted in accordance with GB/T 1.1-2009 given rules. This standard replaces GB/T 12212-1990 "welding symbols Technical drawings - Dimensions, proportions and simplified representation." This standard and GB/T 12212-1990, compared the main technical changes are as follows:

--- Increasing the foreword;

4.1 titled "Overview"; the content was changed to "when drawing a weld, the available views, or cross-sectional view showing a sectional view, can also be used Isometric view schematically showing ";

--- Revised 4.2.1 "freehand" to "schematic drawing", "thick line" to "bold line", "b" to "d";

--- Revised 4.3 "sectional view" to "sectional view";

5.1.3 amended to "in any pattern, the line width of welding symbols, welding symbols font glyphs, character height and font width strokes Degree should linewidth and pattern of other symbols (such as the size of the symbols, surface texture symbols, geometric tolerance symbols), fonts, font, character height Stroke width and the same ";

5.1.4 modified to "weld symbol baseline consists of two mutually parallel thin solid line and thin dotted lines, reference lines are generally in FIG. Long sample of the title bar parallel sides; if necessary, can also be perpendicular to the long side of the phase pattern of the title bar. 11. Weld symbol refers Wire drawing by solid lines "; 11

--- modified text "arrow line" for the "Leader", "(broken line)" to "(thin broken line)"; Table 1

--- modified text "outline width" is "visible outline width";

--- Increasing the basic symbols in Table

2 Size and Scale (No. 14 to 20);

--- Combined the original standard in Tables 3 and 4;

--- Table 3 supplement increased size and scale of symbols (numbers 4-6);

--- Remove the dimensions and proportions of the original standard table No. 41 of supplementary symbols. This standard by the National Technical product documentation Standardization Technical Committee (SAC/TC146) and focal points. This standard was drafted. the machine Productivity Promotion Center, Bolton (Hefei) Co., Ltd. Drive, Anhui Ankai Automobile Parts China (Hefei) Ltd. Shaanxi Province Product Quality Supervision, Inspection, Anhui Institute of Standardization, Dalian Maritime University. The main drafters of this standard. thanks to Yang, Xue Ming, Yang Yikui, King of War, Ding Changdong, Zouyu Tang, Han Zhenyu, Liu Caiyun. The standard replaces the previous editions are.

1 Scope

GB/T 12212-2012 is the Chinese national standard on technical drawings - dimensions, proportions and simplified representation for welding symbols, in the field of generalities, terminology and documentation. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 11 May 2012 by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China; Standardization Administration of China, and has been in force since 1 December 2012. Classification: ICS 01.100, CCS J04. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This standard specifies the general requirements for the weld and weld symbols of painting Dimensions, proportions and simplified representation. This standard applies to technical drawings and related technical documentation.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document. GB/T 324 Weld notation

GB/T 4458.1 Mechanical drawings - General view

GB/T 4458.3 Mechanical Drawing isometric drawing

GB/T 4458.6 Mechanical sectional drawings - view and a sectional view

GB/T 4457.4 Mechanical drawings Fatou line

GB/T 14691 Technical Drawing Font

GB/T 16901.1 technical documents represent the first part of the rule of graphical symbols.
Basic rules

3 Basic requirements

In technical drawings, usually by welding symbols GB/T 324 provisions represent weld. Can also be GB/T 4458.1, GB/T 4458.3 And the provisions of GB/T 4458.6 representation weld.

4 Illustrates a method

4.1 Overview When drawing welds, available views, or cross-sectional view showing a sectional view, can also be used isometric view schematically showing.

4.2 Views As shown in Figure

4.2.1 Weld painting. 1 and 2, showing a series of weld thin solid line allow schematically drawn, also allow the use of bold line (2d ~ 3d) shows the weld, as shown in Figure 3. But at the same pattern, only permits a painting. Spot welds, seam welds, plug welds and weld groove In the longitudinal direction or radial view painting in Table 2.