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

中华人民共和国国家标准

GB/T 12212-2012

Replace 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 according to the rules specified in GB/T 1.1-2009.

The Standard replaces GB/T 12212-1990: *Technical Drawing - Dimensions, Scales and Simplified Representation of Weld Symbols*.

This Standard, in comparison with GB/T 12212—1990, has the major change as follows:

- Added the Foreword;
- Changed the title of 4.1 into “Overview” and the content into “When the weld is drawn, it can either be represented by view, section view or cross-section view, or be schematically represented by axonometric drawing”;
- Changed “Freehand Drawing” into “Schematic Drawing”, “Thick Line” into “Bold Line”, and “b” into “d” in 4.2.1;
- Changed “Section View” into “Cross-section View” in 4.3;
- Changed 5.1.3 into “The line width and the text font, height and stroke width of weld symbol shall be identical to those of other symbols in the drawing (such as dimension symbol, surface structure symbol and geometric tolerance symbol)”;
- Changed 5.1.4 into “The baseline of weld symbol consists of two lines (a thin solid line and a thin dotted line) parallel to each other, which is generally parallel to the longer edge of title bar of the drawing; and it can also be perpendicular to the longer edge of title bar of the drawing if necessary. As shown in Figure 11. And the leader line of weld symbol shall be drawn with a solid line”;
- Changed “Arrow Line” into “Leader Line”, and “(Dotted Line)” into “(Thin Dotted Line)” for the text in Figure 11;
- Changed “Contour Line Width” into “Visible Contour Line Width” for the text in Table 1;
- Added the dimensions and scales (Serial No. 14-20) of basic symbols in Table 2;
- Consolidated Table 3 and Table 4 of the original standard;
- Added the dimensions and scales (Serial No. 4-6) of supplementary symbols in Table 3;
- Deleted the dimensions and scales of supplementary symbols of Serial No. 1 in Table 4 of the original standard

This Standard is proposed and under the jurisdiction of National Standardization Technical Committee of Technical Product Documentation (SAC/TC 146).

Technical Drawing

The dimensions, scales and simplified representation of weld symbols

1 Scope

This Standard specifies the general requirements for drawing method of welds and the dimensions, scales and simplified representation of weld symbols.

This Standard applies to technical drawings and related technical documents.

2 Normative references

The articles contained in the following documents have become this standard when they are quoted herein. For the dated documents so quoted, all the modifications (Including all corrections) or revisions made thereafter shall be applicable to this Standard.

GB/T 324 Weld symbolic representation on drawings

GB/T 4458.1 Mechanical drawings-General principles of presentation-Views

GB/T 4458.3 Mechanical drawings-Axonometric drawings

GB/T 4458.6 Mechanical drawings-General principles of presentation-Sections

GB/T 4457.4 Mechanical drawings-General principles of presentation-Lines

GB/T 14691 Technical drawings—Lettering

GB/T 16901.1 Rules for the presentation of graphical symbols for use in technical product documentation—Part 1: Basic rules

3 Basic requirements

In technical drawings, the weld is generally represented by the weld symbols as specified in GB/T 324.

The welds can also be represented as specified in GB/T 4458.1, GB/T 4458.3 and GB/T 4458.6.

4 Graphical method

4.1 Overview

When the weld is drawn, it can either be represented by view, section view or cross-section view, or be schematically represented by axonometric drawing.

4.2 View

4.2.1 The weld is drawn as shown in Figure 1 and Figure 2, showing that the welds can be either drawn schematically with a series of thin solid lines, or represented by bold lines (*2d-3d*), as shown in



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