ASME Y14.8-2009
[Revision of ASME Y14.8M-1996 (R2008)]

Castings, Forgings, and Molded Parts

Engineering Drawing and Related Documentation Practices

REAFFIRMED 2014

FOR CURRENT COMMITTEE PERSONNEL
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AN AMERICAN NATIONAL STANDARD

The American Society of Mechanical Engineers

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ASME Y14.8, Casting, Forgings, and Molded Parts, was adopted on 2 April 2009 for use by the Department of Defense (DoD). Proposed changes by DoD activities must be submitted to the DoD Adopting Activity: Commander, U.S. Army Research, Development and Engineering Center (ARDEC), ATTN: RDAR-AAR-QES-E, Picatinny Arsenal, NJ 07806-5000. Copies of this document may be purchased from The American Society of Mechanical Engineers (ASME), 22 Law Drive, P.O. Box 2900, Fairfield, NJ 07007-2900, http://www.asme.org.

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Date of Issuance: September 30, 2009

This Standard will be revised when the Society approves the issuance of a new edition. There will be no addenda or written interpretations of the requirements of this Standard issued to this edition.

Periodically certain actions of the ASME Y14 Committee may be published as Cases. Cases are published on the ASME Web site under the Committee Pages at http://cstools.asme.org as they are published.

The American Society of Mechanical Engineers
Three Park Avenue, New York, NY 10016-5990

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FOREWORD

This revision of ASME Y14.8M-1996 expands the scope of the Standard to include molded parts. Changes to both the text and figures have been made to better illustrate drafting practices pertaining to casting/forging and molded part drawings.

Major changes include the addition of symbology for parting line, all around this side of parting line, and all over this side of parting line. Plus draft, minus draft, and draft included are explained. A section on CAD model requirement is added. The effect of applying profile of a surface with datum references to surfaces containing datum target is explained. Wall thickness is defined. Text and figures are revised to reflect these changes.

Suggestions for improvement of this Standard are welcome. They should be sent to The American Society of Mechanical Engineers; Attn: Secretary, Y14 Standards Committee; Three Park Avenue; New York, NY 10016-5990.

This edition was approved by the American National Standards Institute on March 31, 2009.

ASME Y14 COMMITTEE
Engineering Drawing and Related Documentation Practices

(The following is the roster of the Committee at the time of approval of this Standard.)

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Secretary, Y14 Standards Committee
The American Society of Mechanical Engineers
Three Park Avenue
New York, NY 10016-5990

Proposing Revisions. Revisions are made periodically to the Standard to incorporate changes that appear necessary or desirable, as demonstrated by the experience gained from the application of the Standard. Approved revisions will be published periodically.

The Committee welcomes proposals for revisions to this Standard. Such proposals should be as specific as possible, citing the paragraph number(s), the proposed wording, and a detailed description of the reasons for the proposal including any pertinent documentation.

Proposing a Case. Cases may be issued for the purpose of providing alternative rules when justified, to permit early implementation of an approved revision when the need is urgent, or to provide rules not covered by existing provisions. Cases are effective immediately upon ASME approval and shall be posted on the ASME Committee Web page.

Requests for Cases shall provide a Statement of Need and Background Information. The request should identify the standard, the paragraph, figure or table number(s), and be written as a Question and Reply in the same format as existing Cases. Requests for Cases should also indicate the applicable edition(s) of the standard to which the proposed Case applies.

Attending Committee Meetings. The Y14 Standards Committee regularly holds meetings or telephone conferences, which are open to the public. Persons wishing to attend any meeting or telephone conference should contact the Secretary of the Y14 Standards Committee or check our Web site at http://cstools.asme.org/csconnect/.

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CASTINGS, FORGINGS, AND MOLDED PARTS

Section 1
General

1.1 SCOPE

This Standard covers definitions of terms and features unique to casting, forging, and molded part technologies with recommendations for their uniform specification on engineering drawings and related documents. Unless otherwise specified, any reference to features, parts, or processes shall be interpreted as applying to castings, forgings, and molded parts. Castings, forgings, and molded parts are delineated as "parts" throughout the Standard.

1.2 UNITS

The International System of Units (SI) is used in this Standard because SI units are expected to supersede United States (U.S.) Customary units. Customary units could equally well be used without effect to the principles established.

1.3 REFERENCE TO THIS STANDARD

Where drawings are based on this Standard, this fact shall be noted on the drawings or in a document referenced on the drawings. References to this Standard shall state "PREPARED IN ACCORDANCE WITH ASME Y14.8-2009."

1.4 FIGURES

The figures in this Standard are intended as illustrations to aid the user in understanding the principles and methods of drawing described in the text. The absence of a figure illustrating the desired application is neither reason to assume inapplicability nor basis for drawing rejection. In some instances, figures show added detail for emphasis; in other instances, figures are incomplete by intent. Numerical values of dimensions and tolerances are illustrative only.

1.4.1 Drawings in Digital Format

The figures in this Standard are illustrated in 2D drawing presentation. The principles shown in these figures may be presented in digital (3D) format per ASME Y14.41.

1.5 NOTES

Notes herein in capital letters are intended to appear on drawings. Notes in lower case are explanatory only and are not intended to appear on drawings.

1.6 DIMENSIONING AND TOLERANCING

The methods of dimensioning and tolerancing shall be in accordance with ASME Y14.5M and this Standard.

1.7 REFERENCES

The following revisions of American National Standards form a part of this Standard to the extent specified herein. A more recent revision may be used provided there is no conflict with the text of this Standard. In the event of a conflict between the text of this Standard and the references cited herein, the text of this Standard shall take precedence.

ASME Y14.5M-1994, Dimensioning and Tolerancing

ASME Y14.24-1999, Types and Applications of Engineering Drawings

ASME Y14.36M-1996, Surface Texture Symbols

ASME Y14.41-2003, Digital Product Definition Data Practices

ASME Y14.100-2004, Engineering Drawing Practices

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