

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

Castings, Forgings, and Molded Parts

**Engineering Drawing and Related
Documentation Practices**

AN AMERICAN NATIONAL STANDARD



CONTENTS

Foreword	v
Committee Roster	vi
Correspondence with the Y14 Committee	vii
Section 1 General	1
1.1 Scope	1
1.2 Units	1
1.3 Reference to This Standard	1
1.4 Figures	1
1.5 Notes	1
1.6 Dimensioning and Tolerancing	1
1.7 References	1
1.8 Definitions	2
Section 2 Drawing Presentation	4
2.1 General	4
2.2 Separate View Drawing Method	4
2.3 Combined View Drawing Method	4
2.4 End Item Drawing Method	4
Section 3 Drawing Requirements	7
3.1 General	7
3.2 Dimensions	7
3.3 As-Cast/As-Forged/As-Molded Surfaces	7
3.4 Corner Radii	8
3.5 Die Closure Tolerance	8
3.6 Draft Angle	8
3.7 Fillet Radii	13
3.8 Flash Extension	13
3.9 Orientation of Forging Plane	14
3.10 Form Tolerances	14
3.11 Marking	14
3.12 Match Draft	14
3.13 Mismatch	14
3.14 Parting Lines	14
3.15 Sharp Corners	18
3.16 Grain Direction	18
3.17 Special Requirements	18
3.18 Profile Tolerance	20
3.19 Digital Data File Requirements	20
3.20 Wall Thickness as a Refinement of Profile of a Surface	20
Section 4 Datum Referencing	21
4.1 General	21
4.2 Application	21
4.3 Datum Targets	22
4.4 Datum Reference Frame Established by Machined Datum Features	22
4.5 Machine Tooling Centers	22
4.6 Equalizing Datums	22
4.7 Datum Targets and Profile Tolerancing	24

Section 5	Drawing Notes and Items	.34
5.1	General	.34
5.2	Drawing Items	.34
5.3	Sample General Notes	.34
5.4	Sample Local Notes	.35
	Nonmandatory Appendices	
A	Glossary	.37
B	Sample Drawings	.41
C	Form and Proportion of Symbols	.44