This is a free page sample. Access the full version online.

Engineering Drawing
and Related
Documentation
Practices

ASME Y14.43-2003

REAFFIRMED 2008

FOR CURRENT COMMITTEE PERSONNEL
PLEASE E-MAIL CS@asme.org

DIMENSIONING AND TOLERANCING PRINCIPLES FOR GAGES AND FIXTURES

An American National Standard

The American Society of
Mechanical Engineers

This is a free page sample. Access the full version online.

ADOPTION NOTICE

ASME Y14.43, Dimensioning and Tolerancing Principles for Gages and Fixtures, was adopted on 28 January 2003 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 TACOM-ARDEC, ATTN: AMSTA-AR-QAW-E, Picatinny Arsenal, NJ 07806-5000. Copies of this document may be purchased from The American Society of Mechanical Engineers (ASME), 22 Law Drive, PO Box 2900, Fairfield, NJ 07007-2900; http://www.asme.org.

Custodians:
Army — AR
Navy — SA
Air Force — 16
DLA — DH

Adopting Activity:
Army — AR

(Project DRPR-0382)

Review Activities:
Army — AT, AV, CE, CR, EA, MI, SM, TE
Navy — AS, CH, EC, MC, OS, SH, TD, YD
Air Force — 11, 13, 19, 68, 70, 71, 84, 99
DLA — CC, GS, IS
NSA — NS

AMSC N/A

AREA DRPR

DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.

This is a free page sample. Access the full version online.

The American Society of Mechanical Engineers

AN AMERICAN NATIONAL STANDARD

DIMENSIONING AND TOLERANCING PRINCIPLES FOR GAGES AND FIXTURES

ASME Y14.43-2003

This is a free page sample. Access the full version online.

Date of Issuance: September 12, 2003

The next edition of this Standard is scheduled for publication in 2008. There will be no addenda or written interpretations of the requirements of this Standard issued to this edition.

ASME is the registered trademark of The American Society of Mechanical Engineers.

This code or standard was developed under procedures accredited as meeting the criteria for American National Standards. The Standards Committee that approved the code or standard was balanced to assure that individuals from competent and concerned interests have had an opportunity to participate. The proposed code or standard was made available for public review and comment that provides an opportunity for additional public input from industry, academia, regulatory agencies, and the public-at-large.

ASME does not "approve," "rate," or "endorse" any item, construction, proprietary device, or activity.

ASME does not take any position with respect to the validity of any patent rights asserted in connection with any items mentioned in this document, and does not undertake to insure anyone utilizing a standard against liability for infringement of any applicable letters patent, nor assumes any such liability. Users of a code or standard are expressly advised that determination of the validity of any such patent rights, and the risk of infringement of such rights, is entirely their own responsibility.

Participation by federal agency representative(s) or person(s) affiliated with industry is not to be interpreted as government or industry endorsement of this code or standard.

ASME accepts responsibility for only those interpretations of this document issued in accordance with the established ASME procedures and policies, which precludes the issuance of interpretations by individuals.

No part of this document may be reproduced in any form,
in an electronic retrieval system or otherwise,
without the prior written permission of the publisher.

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

Copyright © 2003 by
THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS
All rights reserved
Printed in U.S.A.

This is a free page sample. Access the full version online.

CONTENTS

Foreword iv
Committee Roster v

1 General 1

2 Principles 3

3 Gage Design 7

4 Dimensioning and Tolerancing 16

5 Usage 17

6 Fixtures 19

Figures
1 Diamond Pin Construction 10
2 Fixed Pin Construction 12
3 Pushpin Construction — Type 1 13
4 Pushpin Construction — Type 2 14

Mandatory Appendices
I Illustrations of Gaging Policy 21
II Material Condition Explanation 27

Nonmandatory Appendices
A Examples of Gage Characteristics 31
B Examples and Illustrations 45
C Regardless of Feature Size 95

SAI GLOBAL

This is a free preview. Purchase the entire publication at the link below:

Product Page

Looking for additional Standards? Visit Intertek Inform Infostore

Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation