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

ASME A90.1-2003
(Revision of ASME A90.1-1997)

SAFETY STANDARD FOR BELT MANLIFTS

AN AMERICAN NATIONAL STANDARD

The American Society of Mechanical Engineers

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

The American Society of Mechanical Engineers

AN AMERICAN NATIONAL STANDARD

SAFETY STANDARD FOR BELT MANLIFTS

ASME A90.1-2003

(Revision of ASME A90.1-1997)

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

Date of Issuance: January 30, 2004

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

ASME issues written replies to inquiries concerning interpretations of technical aspects of this Standard. Interpretations are published on the ASME Web site under the Committee Pages at http://www.asme.org/codes as they are issued, and will also be published within the next 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 assume 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 a 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 preclude 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 © 2004 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
Correspondence With the A90 Committee vi
Summary of Changes vii

1 General 1

2 References 1

3 Definitions 1

4 General Requirements 2

5 Mechanical Requirements 13

6 Instruction and Warning Signs 19

7 Operating Rules 19

8 Tests and Inspections 20

Figures
1 Typical Floor Openings [for 14 in. (355 mm) Belts] 3
2 Guardrail and Wall 4
3 Guardrail or Screened Enclosure 5
4 Fixed Type Underfloor Hoods and Guardrail 6
5 Maze Entrance to Manlift 7
6 Typical Pit Location Detail (for New Installations) 9
7 Typical Lower Landing Detail 10
8 Head Shaft Dimensions — Top Landing 11
9 Distance Between Handhold and Step 12
10 Typical Butt Splice Detail 15
11 Typical Lap Splice Detail 16
12 Typical Manual Splice Detail 17

Tables
1 Allowable Size for Floor Openings 2
2 Rubber Manufacturers Association Tolerances for Width of Belting 13
3 Belt Breaking Strength 14
4 Minimum Number of Bolts 18

Mandatory Appendices
I Recommended Training Program for Manlift Passengers 23
II Belt Manlift Inspection Report (Weekly and Monthly) 24

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

FOREWORD

This is a revision of A90.1, Safety Code for Manlifts, which was originally drawn up and approved in 1949 and reaffirmed in 1956. The original Sectional Committee consisted of 19 members representing manufacturers, users, insurance groups, enforcement officials, and independent specialists.

Work was started in 1966 on a revision of this Standard. Each provision of the original code was carefully evaluated in the light of considerable practical field experience. A draft revision was completed in 1967 and approved by letter ballot in 1968. The USA Standards Institute (now called the American National Standards Institute, Inc.) approved the revised standard on February 7, 1969.

Prompted by several serious manlift accidents, the Committee, through correspondence in 1970, considered additional changes to the 1969 standard. Subsequently, in 1972, the Committee issued ANSI A90.1a-1972, a supplement to ANSI Standard A90.1-1969.

In 1972, new Committee officers were appointed and Committee membership was expanded to include new members, many of whom have since made significant contributions to the work of the A90 Committee.

Due to changes in technology and the desire to maximize manlift safety, the Committee set about the task of totally revising the A90.1 Standard. This was accomplished only with a great deal of individual member research and study, coupled with numerous meetings of the entire committee. After three years of concentrated work, the Committee approved by ballot, in 1976, a completely revised draft of the A90.1 Standard. Subsequently, this draft was approved by the American National Standards Institute, Inc., for issuance as American National Standard A90.1-1976.

In 1981, the A90 Committee was converted from an American National Standards Committee to an ASME Accredited Organization Committee, operating under procedures developed by the ASME and accredited by ANSI. Several new members were added to the Committee in this process. After several years of work, a revision to ANSI A90.1-1976 was approved by the A90 Committee and the sponsor organization, and was designated an American National Standard by the American National Standards Institute, Inc., on September 10, 1985.

This revision was approved by the American National Standards Institute on August 14, 2003.

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