Australian Standard®

Swivels for hoists

This Australian Standard was prepared by Committee ME/25, Lifting Tackle. It was approved on behalf of the Council of Standards Australian on 15 February 1989 and published on 14 May 1990.

The following interests are represented on Committee ME/25:

ACT Administration

Australian Chamber of Manufactures

Confederation of Australian Industry

Department of Defence

Department of Industrial Affairs, Qld

Department of Industrial Relations and Employment, N.S.W.

Department of Industry, Technology and Commerce

Department of Labour, Vic.

Department of Labour and Industry, Tas.

Department of Occupational Health, Safety and Welfare, W.A.

Department of Transport and Communications

Electricity Supply Association of Australia

Metal Trades Industry Association of Australia

Work Health Authority, N.T.

Review of Australian Standards. To keep abreast of progress in industry, Australian Standards are subject to periodic review and are kept up to date by the issue of amendments or new editions as necessary. It is important therefore that Standards users ensure that they are in possession of the latest edition, and any amendments thereto.

Full details of all Australian Standards and related publications will be found in the Standards Australia Catalogue of Publications; this information is supplemented each month by the magazine 'The Australian Standard', which subscribing members receive, and which gives details of new publications, new editions and amendments, and of withdrawn Standards.

Suggestions for improvements to Australian Standards, addressed to the head office of Standards Australia, are welcomed. Notification of any inaccuracy or ambiguity found in an Australian Standard should be made without delay in order that the matter may be investigated and appropriate action taken.

Australian Standard®

Swivels for hoists

First published as AS 2318—1979 Second edition 1990 Incorporating: Amdt 1-1991

PREFACE

This Standard was prepared by the Standards Australia Committee on Lifting Tackle, to supersede AS 2318—1979, Swivels.

This edition applies to a wider range of types of swivel, including swivels incorporating a hook, a bow, or a shackle, and other configurations; however, it does not apply to all types of plain bearing swivel. It has also been completely revised as a performance Standard, without including dimensional requirements for size.

It is one of a series of Standards for components that are used in lifting systems. Standards for other components are listed below.

\mathbf{c}

3777

B291

AS	
1138	Thimbles for use with wire rope or fibre (natural or synthetic) rope
1353 1353.1 1353.2	Flat synthetic-webbing slings Part 1: Product specification Part 2: Care and use
1380	Fibre-rope slings (of natural or synthetic rope)
1438	Wire-coil flat slings
1504	Fibre rope—Three-strand, hawser laid
1666	Wire-rope slings
1752	Fibre rope—Eight-strand plaited
2076	Wire rope grips
2089	Sheave blocks (including ships' cargo blocks) of maximum lift $60\ t$
2317	Collared eyebolts
2319	Rigging screws and turnbuckles
2321	Short-link chain for lifting purposes (non-calibrated)
2740	Wedge-type sockets
2741	Shackles
2759	Steel wire rope—Application guide
2841	Galvanized steel wire strand
3569	Steel wire ropes
3585	End fittings for flat-webbing slings
3775	Chain slings—Grade T
3776	Lifting components for Grade T chain slings

Shank hooks and large-eye hooks—Maximum 25 t

Lifting rings and links

© Copyright - STANDARDS AUSTRALIA

Users of Standards are reminded that copyright subsists in all Standards Australia publications and software. Except where the Copyright Act allows and except where provided for below no publications or software produced by Standards Australia may be reproduced, stored in a retrieval system in any form or transmitted by any means without prior permission in writing from Standards Australia. Permission may be conditional on an appropriate royalty payment. Requests for permission and information on commercial software royalties should be directed to the head office of Standards Australia.

Standards Australia will permit up to 10 percent of the technical content pages of a Standard to be copied for use exclusively in-house by purchasers of the Standard without payment of a royalty or advice to Standards Australia.

Standards Australia will also permit the inclusion of its copyright material in computer software programs for no royalty payment provided such programs are used exclusively in-house by the creators of the programs.

Care should be taken to ensure that material used is from the current edition of the Standard and that it is updated whenever the Standard is amended or revised. The number and date of the Standard should therefore be clearly identified.

The use of material in print form or in computer software programs to be used commercially, with or without payment, or in commercial contracts is subject to the payment of a royalty. This policy may be varied by Standards Australia at any time.

3 AS 2318—1990

CONTENTS

		Page
1	SCOPE	4
2	REFERENCED DOCUMENTS	4
3	DEFINITIONS	4
4	CLASSIFICATION	6
5	MATERIAL	6
6	DESIGN AND MANUFACTURE	6
7	MECHANICAL PROPERTIES	
8	MARKING	8
9	TESTING OF MECHANICAL PROPERTIES	
10	PROOF TESTING	9
AP	PENDICES	
A	INFORMATION THAT SHOULD BE SUPPLIED WITH ENQUIRIES	
	AND ORDERS	10
В	CARE AND USE	10
C	DETERMINATION OF SAFE WORKING LOAD	11
D	CONDITIONS FOR APPLICATION OF TEST FORCES	11
E	MEANS FOR DEMONSTRATING COMPLIANCE WITH	
	THIS STANDARD	12

STANDARDS AUSTRALIA

Australian Standard Swivels for hoists

1 SCOPE. This Standard specifies requirements for swivels for hoists. It does not include dimensional requirements for size.

NOTE: Guidance on information that should be supplied with enquiries and orders and guidance on care and use is given in Appendices A and B respectively.

2 REFERENCED DOCUMENTS. The following documents are referred to in this Standard:

	ALLI (OLD DOCCITED (18). The following documents are referred to in this Standard.
AS	
1065	Non-destructive testing—Ultrasonic testing of carbon and low alloy steel forgings
1171	Methods for magnetic particle testing of ferromagnetic products and components
1199	Sampling procedures and tables for inspection by attributes
1399	Guide to AS 1199—Sampling procedures and tables for inspection by attributes
1418 1418.1	SAA Crane Code Part 1: General requirements
1442	Carbon steels and carbon-manganese steels—Hot-rolled bars and semi-finished products
1444	Wrought alloy steels—Standard and hardenability (H) series
1554 1554.1	SAA Structural Steel Welding Code Part 1: Welding of steel structures
1627 1627.0 1627.6	Metal finishing—Preparation and pretreatment of surfaces Part 0: Method selection guide for preparation and pretreatment of steel surfaces Part 6: Phosphate treatment of iron and steel surfaces
1650	Hot-dipped galvanized coatings on ferrous articles
1654	Limits and fits for engineering
1721	General purpose metric screw threads
1789	Electroplated coatings—Zinc on iron or steel
1790	Electroplated coatings—Cadmium on iron or steel
1816 1816.1	Method for Brinell hardness test Part 1: Testing of metals
1831	Iron castings—Spheroidal or nodular graphite cast iron
2074	Steel castings
2193	Methods of calibration and grading of force-measuring systems of testing machines
3777	Shank hooks and large-eye hooks—Maximum 25 t
3900	Quality systems—Guide to selection and use
3904	Quality systems—Guide to quality management and quality system elements
ISO	

Guide 44 General rules for ISO and IEC international third-party certification schemes for products

- 3 **DEFINITIONS.** For the purpose of this Standard, the definitions below apply.
- **3.1** Competent person—a person having practical and theoretical knowledge and relevant experience, such as will enable that person to detect and evaluate any defects and any weaknesses that may affect the intended performance of the equipment.
- **3.2 Self-coloured**—a surface colour of closely adhering brown/blue oxides resulting from heat treatment and subsequent handling during manufacture.
- **3.3 Shall**—indicates that a statement is mandatory.
- 3.4 Should—indicates a recommendation.