



**Lifting components for Grade T(80) and
V(100) chain slings**

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Standards Australia wishes to acknowledge the participation of the expert individuals that contributed to the development of this Standard through their representation on the Committee and through the public comment period.

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Australian Standard[®]

**Lifting components for Grade T(80) and
V(100) chain slings**

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PREFACE

This Standard was prepared by Standards Australia Committee ME-025, Lifting Tackle, to supersede AS 3776—2006, *Lifting components for Grade T chain slings*.

In the preparation of this Standard, cognizance was taken of the following Standards:

EN 1677-1:2000, *Components for slings—Safety, Part 1: Forged steel components, Grade 8*

EN 1677-2:2000, *Components for slings—Safety, Part 2: Forged steel lifting hooks with latch, Grade 8*

EN 1677-3:2001, *Components for slings—Safety, Part 3: Forged steel self-locking hooks, Grade 8*

EN 1677-4:2000, *Components for slings—Safety, Part 4: Links, Grade 8*

The objective of this Standard is to provide requirements for lifting components for use in Grade T(80) and Grade V(100) chain slings and ensure that product supplied meet its design intent. This Standard is for reference by manufacturers, suppliers, users and regulators.

This edition includes the following changes from the previous edition:

- (a) Further explanation and conditions for testing links and self-locking hooks.
- (b) Requirements for fatigue testing.
- (c) Requirements for the competent person have been introduced.
- (d) Addition of Grade V(100) components.

Statements expressed in mandatory terms in notes to Tables are deemed to be requirements of this Standard.

The terms ‘normative’ and ‘informative’ have been used in this Standard to define the application of the appendix to which they apply. A ‘normative’ appendix is an integral part of a Standard, whereas an ‘informative’ appendix is only for information and guidance.

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STANDARDS AUSTRALIA

Australian Standard

Lifting components for Grade T(80) and V(100) chain slings

SECTION 1 SCOPE AND GENERAL

1.1 SCOPE AND APPLICATION

1.1.1 Scope

This Standard specifies requirements for forged lifting components for use in chain lifting assemblies with corresponding sizes of Grade T(80) and Grade V(100) chain complying with AS 2321. The components include hooks with eyes, clevises and other joining devices, mechanical connecting devices, and any other terminal fittings used in a lifting system based on Grade T and Grade V chain.

This Standard does not apply to welded components other than welded master links, welded multi-link assemblies, welded joining links nor does it apply to components subject to an existing Australian Standard.

NOTES:

- 1 AS 2321 specifies chain in terms of the ISO quality grade designation system. The ISO system also permits Grade T to be designated as Grade 8 and Grade V to be designated as Grade 10.
- 2 A list of Standards applicable to components used in lifting systems is given in Appendix D.

1.1.2 Application

Section 2 specifies general requirements that apply to all components. Sections 4 to 8 specify requirements for particular types of component that shall be applied in conjunction with the general requirements.

Section 3 provides the test methods for verification of product conformity. Other aspects of conformity assessment are set out in Appendix E.

1.2 REFERENCED DOCUMENTS

The following documents are referenced in this Standard:

AS

- | | |
|--------|---|
| 1171 | Non-destructive testing—Magnetic particle testing of ferromagnetic products, components and structures |
| 1442 | Carbon steels and carbon-manganese steels—Hot-rolled bars and semifinished products |
| 1444 | Wrought alloy steels—Standard, hardenability (H) series and hardened and tempered to designated mechanical properties |
| 2062 | Non-destructive testing—Penetrant testing of products and components |
| 2193 | Calibration and classification of force-measuring systems |
| 2318 | Swivels for hoists |
| 2321 | Short-link chain for lifting purposes |
| 3775 | Chain slings for lifting purposes—Grade T(80) and V(100) |
| 3775.2 | Part 2: Care and use |