AS 3776—2006

Australian Standard™

Lifting components for Grade T chain slings

This Australian Standard was prepared by Committee ME-025, Lifting Tackle. It was approved on behalf of the Council of Standards Australia on 2 March 2006.
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The following are represented on Committee ME-025:

Australian Chamber of Commerce and Industry
Australian Forging Group
Australian Industry Group
Australian Maritime Safety Authority
Crane Industry Council of Australia
Department of Defence (Australia)
Engineers Australia
Institute of Quarrying Australia
National Association of Testing Authorities Australia
Victorian WorkCover Authority
WorkCover New South Wales

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PREFACE

This Standard was prepared by Standards Australia Committee ME-025, Lifting Tackle, to supersede AS 3758—1990.

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

(a) BS EN 1677-1:2000 Components for slings. Safety. Forged steel components, Grade 8.

(b) BS EN 1677-2:2000 Components for slings. Safety. Forged steel lifting hooks with latch, Grade 8.

(c) BS EN 1677-3:2001 Components for slings. Safety. Forged steel self-locking hooks, Grade 8.

(d) BS EN 1677-4:2000 Components for slings. Safety. Links, Grade 8.

Previously, quality grade was designated as T, 8, 80 or 800. International usage has focused on Grade 8 and, for the purposes of this Standard, Grade T or Grade 8 are the predominant description of quality grade.

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

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.

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

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SECTION 1 SCOPE AND GENERAL

1.1 SCOPE

This Standard specifies requirements for forged lifting components for use in chain sling assemblies with corresponding sizes of Grade T 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 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.

2 A list of standards applicable to components used in lifting systems is given in Appendix D.

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—Grade T

3775.2 Part 2: Care and use

3998 Non-destructive testing—Qualification and certification of personnel

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1554 Structural steel welding

1554.4 Part 4: Welding of steel structures subject to high levels of fatigue loading