

Australian Standard[®]

Plumbing and drainage products

**Part 053: Stainless steel pipes and
tubes for pressure applications**

STANDARDS
Australia



This Australian Standard® was prepared by Committee WS-019, Stainless Steel. It was approved on behalf of the Council of Standards Australia on 16 June 2008. This Standard was published on 11 August 2008.

The following are represented on Committee WS-019:

- Australian Stainless Steel Development Association
 - Water Services Association of Australia
-

This Standard was issued in draft form for comment as DR 0032.

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.

Keeping Standards up-to-date

Australian Standards® are living documents that reflect progress in science, technology and systems. To remain in their currency, all Standards are periodically reviewed, and new editions are published. Between editions, amendments may be issued.

Standards may also be withdrawn. It is important that readers assure themselves they are using a current Standard, which should include any amendments that may have been published since the Standard was published.

Detailed information about Australian Standards, drafts, amendments and new projects can be found by visiting www.standards.org.au

Standards Australia welcomes suggestions for improvements, and encourages readers to notify us immediately of any apparent inaccuracies or ambiguities. Contact us via email at mail@standards.org.au, or write to Standards Australia, GPO Box 476, Sydney, NSW 2001.

Australian Standard[®]

Plumbing and drainage products

**Part 053: Stainless steel pipes and
tubes for pressure applications**

Originally published as ATS 5200.053—2006, ATS 5200.461—2004 and
ATS 5200.471—2005.
Revised, amalgamated and redesignated as AS 5200.053—2008.

COPYRIGHT

© Standards Australia

All rights are reserved. No part of this work may be reproduced or copied in any form or by any means, electronic or mechanical, including photocopying, without the written permission of the publisher.

Published by Standards Australia GPO Box 476, Sydney, NSW 2001, Australia

ISBN 0 7337 8847 5

PREFACE

This Standard was prepared by Standards Australia Committee WS-019, Stainless Steel, to supersede ATS 5200.053—2006, *Technical Specification for plumbing and drainage products, Part 053: Stainless steel pipes and tubes*, ATS 5200.461—2004, *Technical Specification for plumbing and drainage products, Part 461: Stainless steel tubes and mechanical compression fittings for pressure applications* and ATS 520.471—2005, *Technical Specification for plumbing and drainage products, Part 471: Stainless steel tubes and mechanical compression fittings for pressure applications—Alternative systems*.

The objective of this Standard is to enable product certification in accordance with the requirements of the Plumbing Code of Australia (PCA).

The test protocol and information in this Standard was arranged by committee members to meet the authorization requirements given in the Plumbing Code of Australia.

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.

CONTENTS

	<i>Page</i>
1 SCOPE.....	4
2 APPLICATION	4
3 NORMATIVE REFERENCES	4
4 DEFINITIONS.....	5
5 MATERIALS	5
6 MARKING	6
7 PACKAGING	6
8 DESIGN.....	6
9 PERFORMANCE REQUIREMENTS AND TEST METHODS.....	8
10 TEST SEQUENCE AND TEST SAMPLE PLAN	8
11 PRODUCTION DOCUMENTATION.....	9
 APPENDICES	
A MEANS FOR DEMONSTRATING COMPLIANCE WITH THIS STANDARD	10
B HYDROSTATIC TEST.....	12
C SAFE WORKING PRESSURE AND TESTING PRESSURE FOR STAINLESS STEEL PIPES AND TUBES.....	14
 BIBLIOGRAPHY	 18

STANDARDS AUSTRALIA

Australian Standard
Plumbing and drainage products

Part 053: Stainless steel pipes and tubes for pressure applications

1 SCOPE

This Standard sets out the specifications and requirements for stainless steel pipes and tubes in the range of DN 15 to DN 300 used in hot and cold water supply systems.

NOTE: Pipes and tubes manufactured to this Standard are intended for assembly using fittings complying with AS 3688.

2 APPLICATION

This Standard will be referenced in AS 5200.000.

NOTE: AS 5200.000 provides the level of WaterMark Certification required for this product to be used in plumbing systems in accordance with the Plumbing Code of Australia.

Appendix A sets out the means by which compliance with this Standard shall be demonstrated by a manufacturer for the purpose of product certification.

3 NORMATIVE REFERENCES

The following documents are indispensable to the application of this Standard:

NOTE: Documents referenced for informative purposes are listed in the Bibliography.

AS

1349	Bourdon tube pressure and vacuum gauges
2084	Non-destructive testing—Eddy current testing of metal tubes
5200	Technical specification for plumbing and drainage products
5200.000	Part 000: Procedures for certification of plumbing and drainage products

AS/NZS

3500	Plumbing and drainage
3500.0	Part 0: Glossary of terms
3500.1	Part 1: Water services
4020	Testing of products for use in contact with drinking water

EN

10212	Welded Stainless Steel Tubes For The Conveyance Of Water And Other Aqueous Liquids—Technical Delivery Conditions
-------	--

ISO

10426	Petroleum and natural gas industries—Cements and materials for well cementing (series)
-------	--

ASME

B36.19M	Stainless Steel Pipe
---------	----------------------