

Australian Standard™

**Knife-gate valves for waterworks
purposes**

This Australian Standard was prepared by Committee WS-022, Valves for Waterworks Purposes. It was approved on behalf of the Council of Standards Australia on 3 January 2003 and published on 3 March 2003.

The following are represented on Committee WS-022:

Australian Chamber of Commerce and Industry
Australian Industry Group
Australian Valve Manufacturers Association
Business New Zealand
Master Plumbers Australia
New Zealand Metal Casting Industry Association
Plastics Industry Pipe Association of Australia
Water Industry Alliance
Water Services Association of Australia

Keeping Standards up-to-date

Standards are living documents which reflect progress in science, technology and systems. To maintain 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 Standards may also be withdrawn.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 which may have been published since the Standard was purchased.

Detailed information about Standards can be found by visiting the Standards Australia web site at www.standards.com.au and looking up the relevant Standard in the on-line catalogue.

Alternatively, the printed Catalogue provides information current at 1 January each year, and the monthly magazine, *The Australian Standard*, has a full listing of revisions and amendments published each month.

We also welcome suggestions for improvement in our Standards, and especially encourage readers to notify us immediately of any apparent inaccuracies or ambiguities. Contact us via email at mail@standards.com.au, or write to the Chief Executive, Standards Australia International Ltd, GPO Box 5420, Sydney, NSW 2001.

This Standard was issued in draft form for comment as DR 02096.

AS 6401—2003

Australian Standard™

Knife-gate valves for waterworks purposes

First published as AS 6401—2003.

COPYRIGHT

© Standards Australia International

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 International Ltd
GPO Box 5420, Sydney, NSW 2001, Australia

ISBN 0 7337 5034 6

PREFACE

This Standard was prepared by the Joints Standards Australia/Standards New Zealand Committee WS-022, Valves for Water Supply Purposes, in response to a request from Water Services Association of Australia (WSAA) to provide a suitable product Standard for knife-gate valves.

The objective of this Standard is to provide material requirements and performance tests for knife-gate valves in water supply systems including potable water, recycled water and screened wastewater systems, together with default compliance requirements for the use of manufacturers and certification bodies.

Support and contribution is acknowledged from the Water Services Association of Australia (WSAA) and manufacturers.

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 and figures are deemed to be requirements of this Standard.

CONTENTS

	<i>Page</i>
SECTION 1 SCOPE AND GENERAL	
1.1 SCOPE	4
1.2 REFERENCED DOCUMENTS	4
1.3 DEFINITIONS	4
1.4 VALVE TYPE	5
1.5 DESIGNATION OF SIZE	6
1.6 ALLOWABLE PRESSURES	6
SECTION 2 MATERIALS AND COMPONENTS	
2.1 GENERAL	7
2.2 CORROSION-RESISTANT MATERIALS	7
2.3 CONTAMINATION OF WATER	7
SECTION 3 DESIGN	
3.1 GENERAL	9
3.2 END CONNECTIONS	9
3.3 COMPONENT DESIGN—WELDING AND POST WELD HEAT TREATMENT ...	9
3.4 DIMENSIONS	9
3.5 GATE	10
3.6 COMPONENT CONNECTIONS	11
3.7 SPINDLE	11
3.8 LIFTING DEVICES	11
3.9 FASTENERS	11
3.10 OPERATION	11
SECTION 4 PERFORMANCE TESTS	
4.1 GENERAL	12
4.2 TYPE TESTS	12
4.3 PRODUCTION TESTS	14
SECTION 5 MARKING AND PACKAGING	
5.1 BODY MARKINGS	16
5.2 PACKAGING	16
APPENDICES	
A MEANS FOR DEMONSTRATING COMPLIANCE WITH THIS STANDARD	17
B PURCHASING GUIDELINES	20
C REFERENCED DOCUMENTS	22
D ACCEPTABLE ALTERNATIVE MATERIALS	24

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
-