# Australian Standard®

### Bursting discs and bursting disc devices—Guide to application, selection, and installation

[Title allocated by Defence Cataloguing Authority: DISK, RUPTURABLE (Guide to application, selection and installation)] This Australian Standard was prepared by Committee ME/1, Boilers and Unfired Pressure Vessels. It was approved on behalf of the Council of Standards Australia on 12 May 1989 and published on 18 August 1989.

The following interests are represented on Committee ME/1: Aluminium Development Council Australian Compressed Air Institute Australian Institute for Non-destructive Testing Australian Institute of Energy Australian Institute of Petroleum Australian Liquefied Petroleum Gas Association Australian Valve Manufacturers Association Australian Welding Institute Australian Welding Research Association Boiler and Pressure Vessel Manufacturers Association of Australia Bureau of Steel Manufacturers of Australia Confederation of Australian Industry Department of the Arts, Sport, the Environment, Tourism, and Territories Department of Defence Department of Industrial Affairs, Qld Department of Industrial Relations and Employment, N.S.W. Department of Labour, S.A. Department of Labour, Vic. Department of Labour and Industry, Tas. Department of Occupational Health, Safety and Welfare, W.A. Electricity Supply Association of Australia Institute of Metals and Materials, Australia Institution of Engineers, Australia Insurance Council of Australia Metal Trades Industry Association of Australia National Association of Testing Authorities, Australia Railways of Australia Committee Society of Mechanical Engineers of Australasia Sugar Research Institute Work Health Authority, N.T.

This Standard was issued in draft form for comment as DR 88118.

**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which subscribing members receive, and which gives details of new publications, new editions and amendments, and of withdrawn Standards.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®

## Bursting discs and bursting disc devices—Guide to application, selection, and installation

First published as AS 1358—1972. Second edition 1989.

Incorporating: Amdt 1—1991

PUBLISHED BY STANDARDS AUSTRALIA (STANDARDS ASSOCIATION OF AUSTRALIA) 1 THE CRESCENT, HOMEBUSH, NSW 2140

ISBN 0 7262 5788 5

#### PREFACE

This Standard was prepared by Standards Australia's Committee on Boilers and Unfired Pressure Vessels, to supersede AS 1358-1972, *Bursting discs*.

In the preparation of this Standard, the committee considered ISO 6718, *Bursting discs and bursting disc devices*, and the assistance gained therefrom is acknowledged.

#### © 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.

### CONTENTS

		Page
SECTIO	DN 1. SCOPE AND GENERAL	
1.1	SCOPE	4
1.1		4
		-
SECTIO	ON 2. GENERAL DESCRIPTIONS OF BURSTING DISCS AND BURSTING DISC DEVICES	
2.1	BURSTING DISCS	6
2.2	BURSTING DISC HOLDERS	6
2.3	BACKPRESSURE SUPPORTS	10
2.4	TEMPERATURE SHIELDS	10
2.5	STIFFENING RINGS	10
2.6	GASKETS	10
2.7	PROTECTION FROM CORROSION	10
SECTIO	ON 3. APPLICATION AND SELECTION OF BURSTING DISCS AND BURSTING DISC DEVICES	
3.1	APPLICATION	11
3.2	SELECTION	11
3.3	DISCHARGE CAPACITY	11
3.4	IDENTIFICATION AND MARKING	11
SECTIO	DN 4. INSTALLATION OF BURSTING DISC DEVICES	
4.1	GENERAL	12
4.2	BURSTING DISC ALONE	12
4.3	IN COMBINATION WITH SAFETY VALVES OR IN PARALLEL	12
4.4	BACKPRESSURE SUPPORTS	13
4.5	MODIFICATIONS	13
4.6	GASKETS	13
APPEN	DICES	
А	INFORMATION TO ASSIST DESIGN OR SELECTION OF	
	BURSTING DISCS AND BURSTING DISC DEVICES	14
В	IDENTIFICATION AND MARKING OF BURSTING DISCS AND	
	BURSTING DISC DEVICES	15
С	DISCHARGE CAPACITY	16
D	DERIVATION OF COMPRESSIBILITY FACTOR	22



This is a free preview. Purchase the entire publication at the link below:

**Product Page** 

S Looking for additional Standards? Visit Intertek Inform Infostore

> Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation