

AS 2671—1983

Australian Standard[®]

**FLUID POWER—HYDRAULIC
SYSTEMS AND COMPONENTS**

This Australian standard was prepared by Committee ME/35, Fluid Power Systems and Components. It was approved on behalf of the Council of the Standards Association of Australia on 6 October 1983 and published on 2 December 1983.

The following interests are represented on Committee ME/35:

Australian Institute of Petroleum Limited
Australian Mining Industry Council
Australian Pneumatic and Hydraulic Association
Bureau of Steel Manufacturers of Australia
CSIRO, Division of Mechanical Engineering
Confederation of Australian Industry
Department of Defence
Department of Industrial Relations, N.S.W.
Department of Technical and Further Education, N.S.W.
Federal Chamber of Automotive Industries
Fluid Power Society Australia
Metal Trades Industry Association of Australia
Railways of Australia Committee
Royal Melbourne Institute of Technology

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which subscribing members receive, and which gives details of new publications, new editions and amendments, and of withdrawn Standards.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

This standard was issued in draft form for comment as DR 82176.

AS 2671—1983

Australian Standard[®]

**FLUID POWER—HYDRAULIC
SYSTEMS AND COMPONENTS**

First published 1983

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

ISBN 0 7262 3221 1

PREFACE

This standard was prepared by the Association's Committee on Fluid Power Systems and Components. It is based on ISO 4413, Hydraulic Fluid Power - General Rules for the Application of Equipment to Transmission and Control Systems.

The standard is in technical agreement with ISO 4413, but some editorial rearrangement has been made to bring it into conformity with the format adopted for Australian standards. It is one of a number of proposed Australian standards in this field based on International standards.

© 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

	<i>Page</i>
FOREWORD	5
SECTION 1. SCOPE AND GENERAL	
1.1 Scope	6
1.2 Application	6
1.3 Referenced Documents	6
1.4 Definitions	6
SECTION 2. GENERAL REQUIREMENTS	
2.1 Materials	7
2.2 Basis of Design	7
2.3 Circuit Diagrams	7
2.4 Technical Information	8
2.5 Installation	8
2.6 Testing	8
2.7 Identification	8
2.8 Transportation	8
2.9 Maintenance Information	8
SECTION 3. PUMPS AND HYDRAULIC MOTORS	
3.1 General	10
3.2 Pump Connections	10
3.3 Hydraulic Motor Output Characteristics	10
SECTION 4. CYLINDERS	
4.1 Resistance to Buckling	11
4.2 Alignment	11
4.3 Mounting	11
4.4 Maintenance Provisions	11
4.5 Deceleration Devices	11
4.6 Piston Rods	11
4.7 Air Entrapment	11
4.8 Contaminant Exclusion	11
SECTION 5. VALVES	
5.1 Mounting	12
5.2 Fail-safe Valves	12
5.3 Valve Actuators	12
5.4 Indication of Valve Operation	12
SECTION 6. FLUIDS	
6.1 Identification	13
6.2 Compatibility	13
6.3 Handling Precautions	13
6.4 Maintenance Provisions	13
6.5 Fill and Make-up Fluid	13
SECTION 7. FLOWLINES AND FITTINGS	
7.1 General	14
7.2 Installation	14
7.3 Fittings	14
7.4 Flexible Hoses	14
7.5 Plastics Flowlines	15
SECTION 8. FLUID RESERVOIRS	
8.1 Basic Requirements	16
8.2 Construction	16

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](#)
-