

AS 1722.1—1975

Australian Standard<sup>®</sup>

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**Pipe threads of Whitworth form**

**Part 1: Sealing pipe threads  
(metric units)**

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The following scientific, industrial and governmental organizations and departments were officially represented on the committee entrusted with the preparation of this standard:

Airconditioning and Refrigeration Equipment Manufacturers Association  
of Australia  
Associated Chambers of Manufactures of Australia  
Australian and New Zealand Railways Conferences  
Australian Institute of Refrigeration, Air Conditioning and Heating  
Australian Liquefied Petroleum Gas Association  
Brassware Manufacturers Association of Victoria  
Dairy Equipment Manufacturers Association of Australia  
Department of Defence (Army and Materials Research Laboratory)  
Department of Manufacturing Industry (Ammunitions Factory)  
Department of Technical Education, N.S.W.  
Electricity Supply Association of Australia  
Fasteners Institute of Australia  
Federal Chamber of Automotive Industries  
Federation of Automotive Products Manufacturers  
Metal Trades Industry Association of Australia  
National Measurement Laboratory  
Petroleum Refinery Engineers Advisory Committee  
Postmaster-General's Department  
Society of Automotive Engineers — Australasia  
The Institution of Engineers, Australia  
The Institution of Production Engineers  
Sydney Metropolitan Water, Sewerage and Drainage Board

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This standard, prepared by Committee ME/28, Screw Threads, was approved on behalf of the Council of the Standards Association of Australia on 13 November 1974.

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## PREFACE

This standard was prepared by the Association's Committee on Screw Threads as a metrication and revision of AS B53—1961 which was an endorsement with amendment of BS 21:1957, and which it accordingly supersedes. Part 2 of this standard deals with fastening pipe threads, which were formerly specified in AS B154.

Except for the method of designation, the external taper pipe threads and internal pipe threads given in this standard are in agreement with ISO 7\* which was based on BS 21:1957, but it is wider in scope than both, particularly in the description of gauges and gauging methods. In response to a demand from Australian industry the long screw thread is included in this standard, but is not given in ISO 7.

A new method of designating pipe threads is introduced. Current Australian practice is to designate *pipe size* by metric nominal bore (e.g. 50 NB) whereas ISO 7 designates *pipe threads* by imperial nominal bore (e.g. RP2). This standard reconciles these conflicting methods of designating by adopting a dual number (e.g. RP2/50).

The standard retains the Gauging System B of BS 21:1957 as recommended in the endorsement of that standard as AS B53.

The committee is aware of the wide use of parallel ring gauges for gauging taper external threads and there are signs of a trend towards the use of these gauges in international standards; however at this time there are not national or international standards for such gauges. Should there be further developments in this matter, the method of gauging in this standard will be reviewed.

Attention is drawn to the use of the 'decimal comma' in this standard. Its use in situations where ambiguity does not arise is recognized by the Metric Conversion Board, and the comma is used in new Australian standards primarily concerned with drawing practice and workshop design.

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\* ISO 7, Pipe Threads for Gas List Tubes and Screwed Fittings Where Pressure-tight Joints are made on the Threads ( $\frac{1}{8}$  inch to 6 inches).

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