

Australian Standard™

**Laboratory glassware—
Measuring cylinders**

This Australian Standard was prepared by Committee CH-001, Laboratory Glassware and Related Apparatus. It was approved on behalf of the Council of Standards Australia on 15 November 2002 and published on 11 December 2002.

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Measuring cylinders**

Originated as AS R6—1947.
Previous edition AS 2163—1995.
Third edition 2002.

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Published by Standards Australia International Ltd
GPO Box 5420, Sydney, NSW 2001, Australia

ISBN 0 7337 4927 5

PREFACE

This Standard was prepared by the Standards Australia Committee CH-001, Laboratory Glassware and Related Apparatus to supersede AS 2163—1995, *Laboratory glassware—Measuring cylinders*.

The objective of this Standard is to provide a specification for graduated measuring cylinders required for general use in laboratories.

This revision applies to only those measuring cylinders considered as Class B in the 1995 edition of the Standard, and the specified dimensions also conform with ISO 4788:1980, *Laboratory glassware—Graduated measuring cylinders*.

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STANDARDS AUSTRALIA**Australian Standard**
Laboratory glassware—
Measuring cylinders**1 SCOPE**

This Standard sets out requirements for unstoppered and stoppered measuring cylinders suitable for general laboratory purposes.

2 REFERENCED DOCUMENT

The following document is referred to in this Standard:

ISO

384 Laboratory glassware—Principles of design and construction of volumetric glassware

3 DEFINITION

For the purpose of this Standard the definition below applies.

3.1 Capacity

The capacity corresponding to any graduation line is the volume of water at 20°C, expressed in millilitres, contained by the cylinder at 20°C when filled to that graduation line.

4 BASIS OF ADJUSTMENT**4.1 Unit of volume**

The term ‘millilitre’ (mL) is used in accordance with the International System of Units (SI).

4.2 Reference temperature

The standard reference temperature, i.e. the temperature at which the cylinder is intended to contain its nominal volume (nominal capacity), shall be 20°C.

5 CLASS OF ACCURACY

One class of accuracy only is specified, the accuracy being lower than that associated with items of volumetric glassware intended for analytical use.

6 TYPES

Cylinders shall be provided either with a pouring spout (see Figure 1(a)), or with a ground neck (see Figure 1(b)) and a suitably fitting stopper.

The tolerances on the capacities of measuring cylinders shall be as given in Table 1.

7 CONSTRUCTION**7.1 Material**

The cylinder should be made of clear glass. It shall be well annealed and as free as possible from striae and other visible defects. Amber or other coloured glass may be used for special purposes.