

Australian Standard™

**Medical equipment—Conical fittings  
with a 6 percent (Luer) taper for  
syringes, needles and certain other  
medical equipment**

**Part 2: Lock fittings**

This Australian Standard was prepared by Committee HE-009, Hypodermic Equipment - General Medical. It was approved on behalf of the Council of Standards Australia on 16 May 2003 and published on 30 June 2003.

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The following are represented on Committee HE-009:

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Australian College of Operating Room Nurses  
Australian Infection Control Association  
Australian Medical Association  
Certification Bodies (Australia)  
Commonwealth Department of Health and Ageing  
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## PREFACE

This Standard was prepared by the Australian members of the Joint Standards Australia/Standards New Zealand Committee HE-009, Hypodermic Equipment—General Medical. After consultation with stakeholders in both countries, Standards Australia and Standards New Zealand decided to develop this Standard as an Australian, rather than an Australian/New Zealand Standard.

This Standard is identical with and has been reproduced from ISO 594-2:1998, *Conical fittings with a 6% (Luer) taper for syringes, needles and certain other medical equipment—Part 2: Lock fittings*.

The objective of this Standard is to specify requirements for conical lock fittings with a 6 percent (Luer) taper for use with hypodermic syringes and needles and with certain other apparatus for medical use, e.g. transfusion equipment, for fittings made of rigid and of semi-rigid materials and include test methods.

The terms ‘normative’ and ‘informative’ are used to define the application of the annex to which they apply. A normative annex is an integral part of a standard, whereas an informative annex is only for information and guidance.

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- (a) Its number does not appear on each page of text and its identity is shown only on the cover and title page.
- (b) In the source text ‘this International Standard’ should read ‘this Australian Standard’.
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References to International Standards should be replaced by references to Australian or Australian/New Zealand Standards as follows:

<i>Reference to International Standard</i>		<i>Australian Standard</i>	
ISO		AS	
594	Conical fittings with a 6% (Luer) taper for syringes, needles and certain other medical equipment	1600	Medical equipment—Conical fittings with a 6 percent (Luer) taper for syringes, needles and certain other medical equipment
594-1	Part 1: General requirements	1600.1	Part 1: General requirement

## CONTENTS

<b>1 Scope .....</b>	<b>1</b>
<b>2 Normative references .....</b>	<b>1</b>
<b>3 Dimensions and tolerances .....</b>	<b>1</b>
<b>4 Requirements.....</b>	<b>6</b>
<b>5 Test methods .....</b>	<b>6</b>

NOTES

## AUSTRALIAN STANDARD

# Medical equipment—Conical fittings with a 6 percent (Luer) taper for syringes, needles and certain other medical equipment

## Part 2: Lock fittings

### 1 Scope

This part of ISO 594 specifies requirements for conical lock fittings with a 6 % (Luer) taper for use with hypodermic syringes and needles and with certain other apparatus for medical use, e.g. transfusion equipment.

The requirements apply to fittings made of rigid and of semi-rigid materials and include test methods, but exclude provision for more flexible or elastomeric materials.

NOTE 1 It is not practicable to define the characteristics of rigid or semi-rigid materials with precision, but glass and metal may be considered as typical rigid materials. In contrast many plastics materials may be regarded as semi-rigid.

NOTE 2 The Luer lock fitting was designed for use at pressures of the order of 300 kPa or lower. Its use in other applications may require consideration to establish its suitability.

### 2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this part of ISO 594. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this part of ISO 594 are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid International Standards.

ISO 468, *Surface roughness — Parameters, their values and general rules for specifying requirements.*

ISO 594-1:1986, *Conical fittings with a 6 % (Luer) taper for syringes, needles and certain other medical equipment — Part 1: General requirements.*

ISO 7886-1, *Sterile hypodermic syringes for single use — Part 1: Syringes for manual use.*

### 3 Dimensions and tolerances

#### 3.1 Male and female 6 % (Luer) conical fittings

The dimensions and tolerances for the male and female fittings specified in ISO 594-1 apply to the relevant conical part of the fitting described in clause 4 of this part of ISO 594.

#### 3.2 Male and female 6 % (Luer) conical lock fittings

##### 3.2.1 Rigid materials

The dimensions of male and female lock fittings made of rigid materials shall be as shown in Figures 1 to 4 and as given in Table 1.