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Table of changes

Change No.	Date	Scope
Amdt 1	2007	Amended to include maximum lengths of sleeves on plug ans, to clarify a drawing, and to change a dimension on the gauge is annex D.
Amdt 2	2012	Amended to state the phasing out period, to rectrict the donensions in standard sheets 1-1, 1-2 and annex D, and to add requirements for the multi-pin gauge.

Foreword

This South African standard was approved by National committee SABS SC 67C, *Electricity distribution systems and components – Electrical energy ries* in accordance with procedures of the SABS Standards Division, in compliance with an ex 3 of the WTO/TBT agreement.

This document was published in December 22.2.

This document supersedes SANS 164-1 2005 (edition 5.1).

A vertical line in the margin slows where the text has been technically modified by amendment No. 2.

Over the next 5 years SINS 164-1 will be superseded by SANS 164-2 as the applicable standard for the conventional plug and socket-outlet system in South Africa. Amdt 2

This document, but reference in SANS 164-0, is referenced in the *Compulsory specification* for pluga socket-outlets and socket-outlet adaptors, as published by Government Notice R 10 5 (covernment Gazette 33763) of 19 November 2010.

ANS 64 consists of the following parts, under the general title *Plug and socket-outlet systems* for the systems for the syste

Part 0: General and safety requirements.

Part 1: Conventional system, 16 A 250 V a.c.

Part 2: IEC system, 16 A 250 V a.c.

Part 3: Conventional system, 6 A 250 V a.c.

Part 4: Dedicated system, 16 A 250 V a.c.

Part 5: Two-pole, non-rewirable plugs, 2,5 A 250 V a.c., with cord, for connection of class II equipment.

Part 6: Two-pole system, 10 A 250 V a.c. and 16 A 250 V a.c., for connection of class II equipment.

Annexes A, B, C, D, E and F form an integral part of this document.

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Plug and socket-outlet systems for household and similar purposes for use in South Africa

Part 1:

Conventional system, 16 A 250 V a.c.

1 Scope

This part of SANS 164 covers the range and dimensions of the conventional 16 A 250 V a.c. plug and socket-outlet system and socket-outlet maptors for household and similar purposes, for use in South Africa.

2 Normative references

The following readards contain provisions which, through reference in this text, constitute provisions of this part of CANS 164. All standards are subject to revision and, since any reference to a standard is doment to be a reference to the latest edition of that standard, parties to agreements based on this part of SANS 164 are encouraged to take steps to ensure the use of the most recent edition of the standards indicated below. Information on currently valid national and international standards an be obtained from the SABS Standards Division.

INS 164-0, Plug and socket-outlet systems for household and similar purposes for use in uth Africa – Part 0: General and safety requirements.

SANS 60884-1, Plugs and socket-outlets for household and similar purposes – Part 1: General requirements.

3 Definitions

For the purposes of this part of SANS 164, the definitions given in SANS 164-0 apply.

4 Requirements

4.1 The requirements of SANS 164-0 apply.

4.2 Socket-outlets, socket-outlet adaptors and rewireable plugs shall be rated at 16 A and 250 V a.c.

4.3 Plugs and socket-outlets shall comply with the dimensions given on the appropriate of standard sheets 1-1 or 1-2.

Use the gauges given in annexes A to F for checking the dimensions.

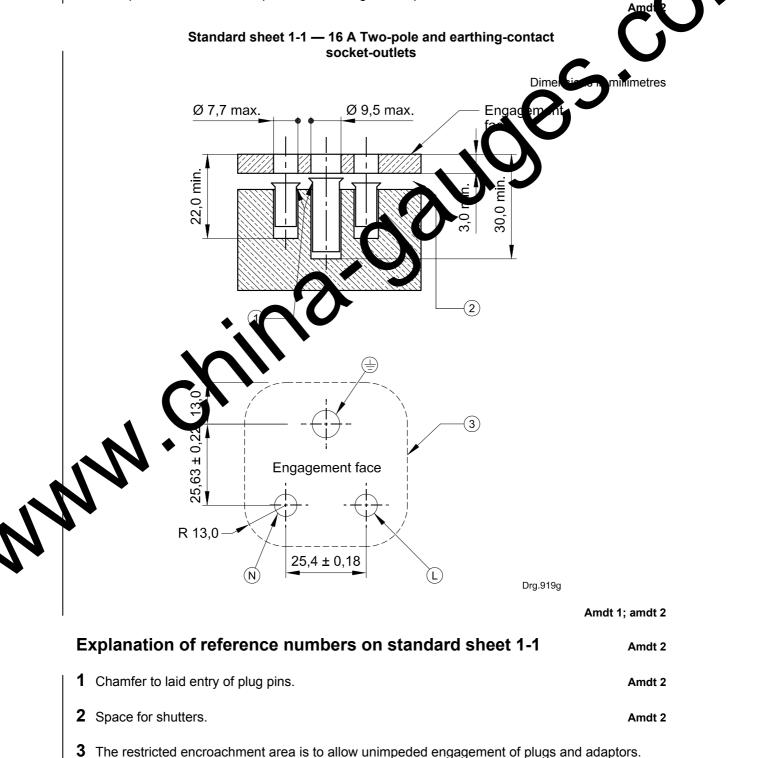
SANS 164-1:2012

Edition 5.2

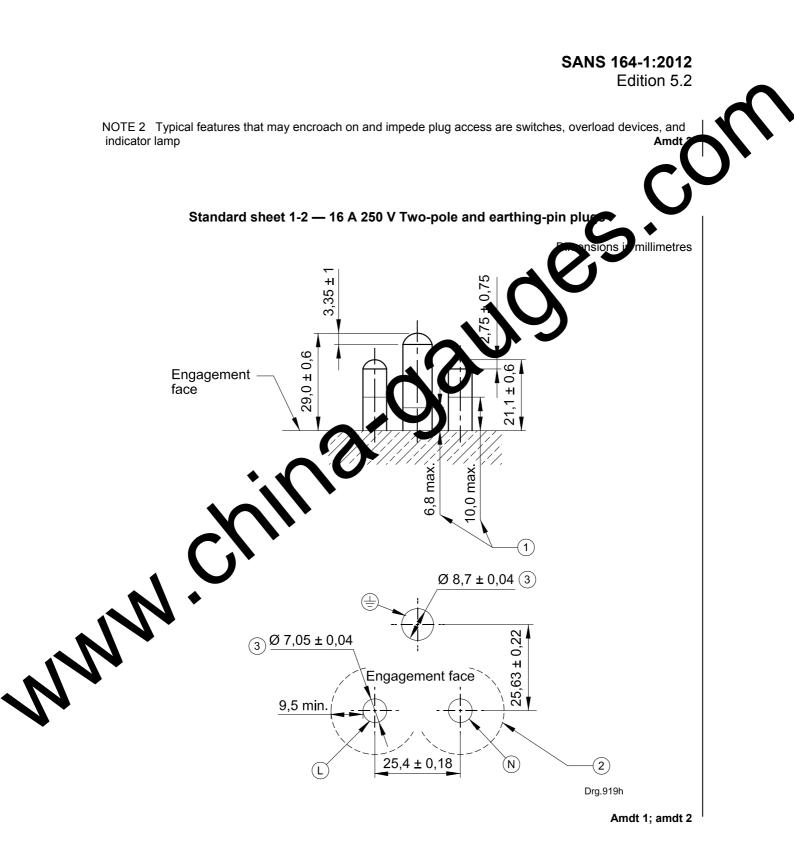
SANS 164-1:2012

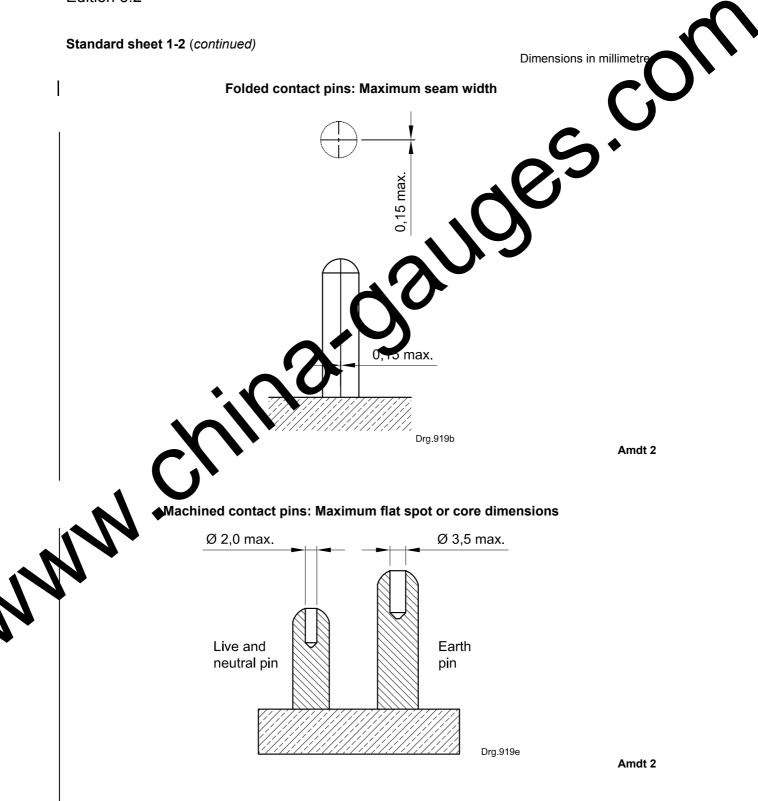
Edition 5.2

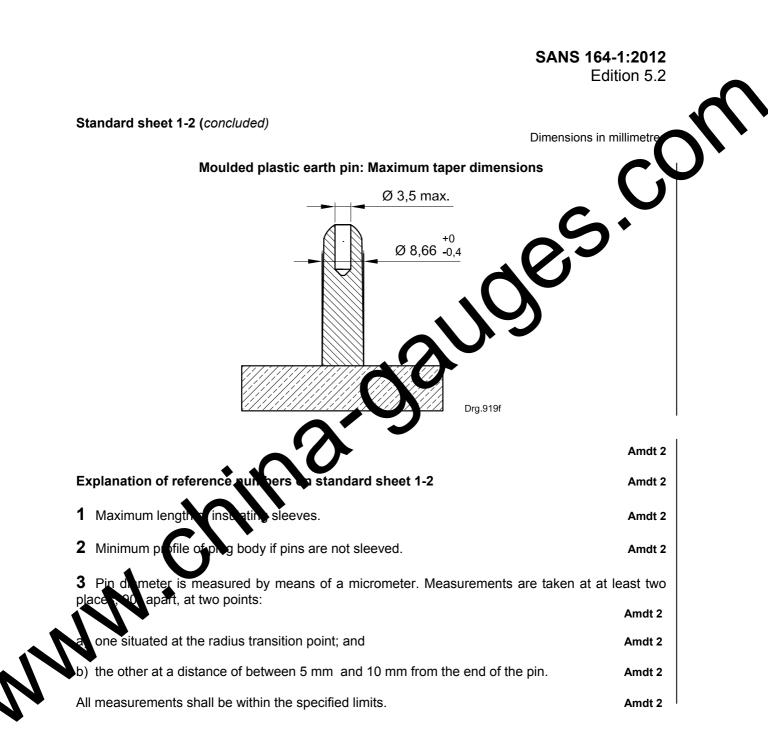
4.4 When tested in accordance with 22.2 in SANS 60884-1:2006, the maximum multi-pin gauge force for products above 10 A up to and including 16 A 3-poles shall be reduced to 25 N.

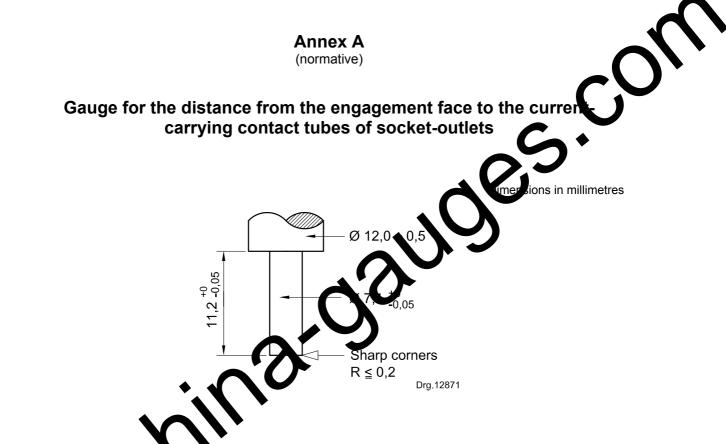


Amdt 2



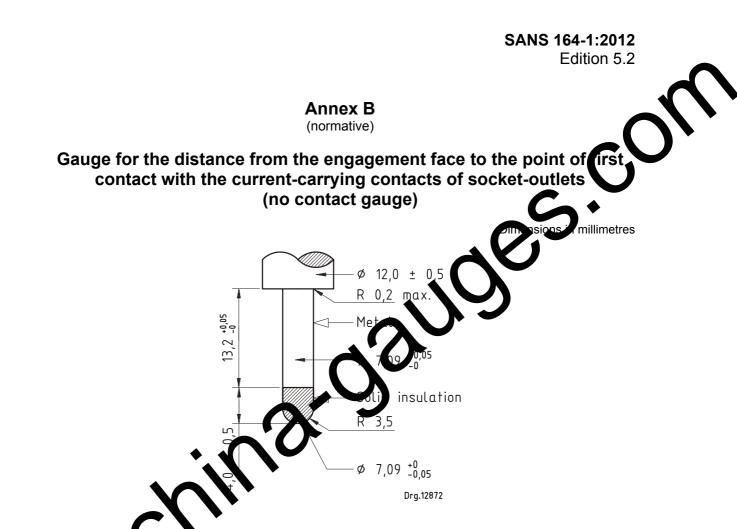






Insert the gauge as far is possible into the guidance hole of a socket-outlet, with shutters removed. Move the gauge around the periphery of the guidance hole, and ensure that it does not make contact with the tacket-outlet contact tube. Indication of contact shall be by means of a lamp connected between the gauge and the appropriate contact tube. The a.c. or d.c. voltage of the circuit shall be between 12 V and 24 V.

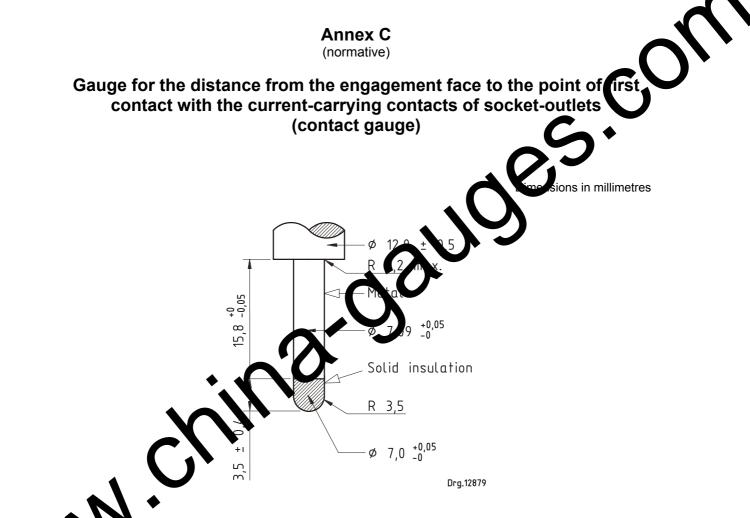
auges shall be made of a hard, corrosion-resistant metal such as stainless steel.



Insert the gauge as har as possible into the guidance hole of a socket-outlet. The indicator lamp described in annumental not light.

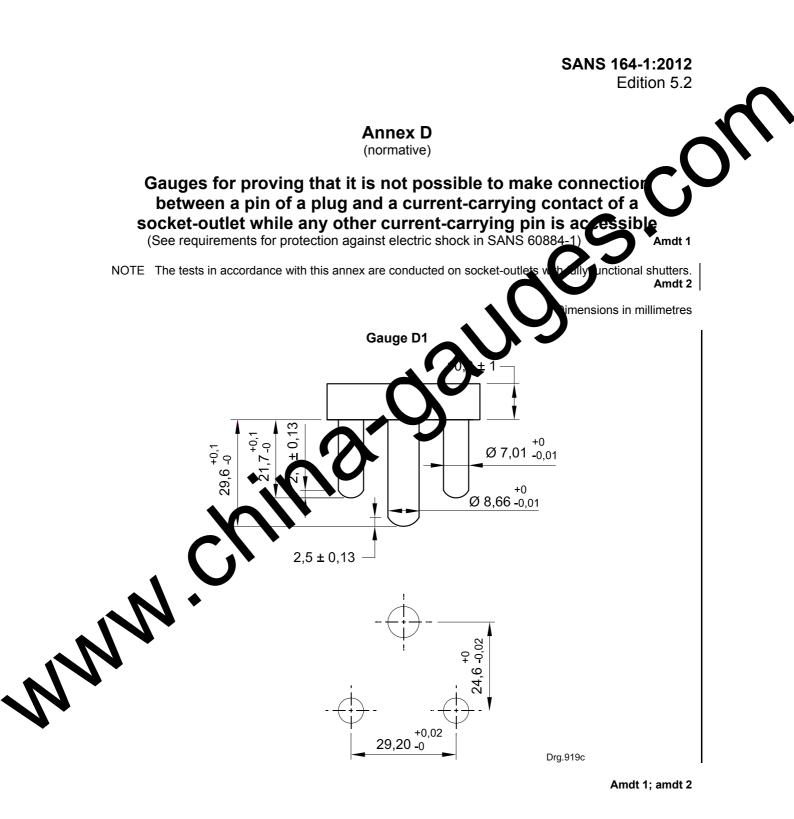
the insulated tips of gauges are for guiding the gauges.

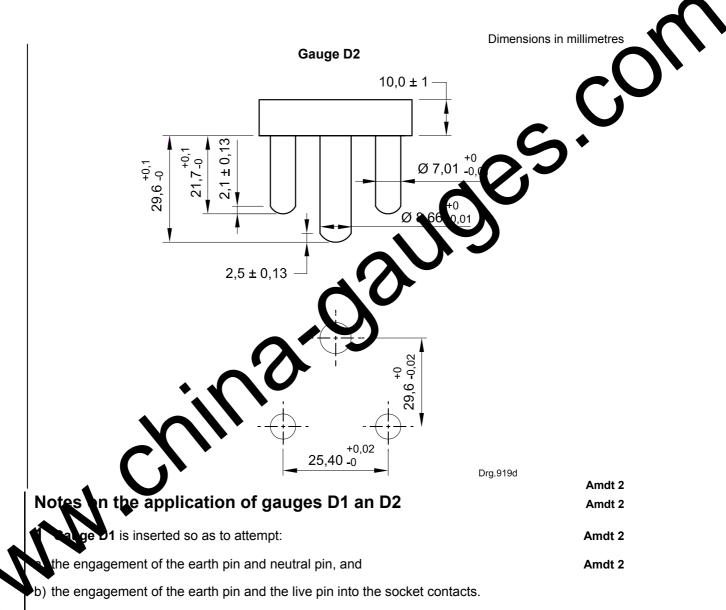
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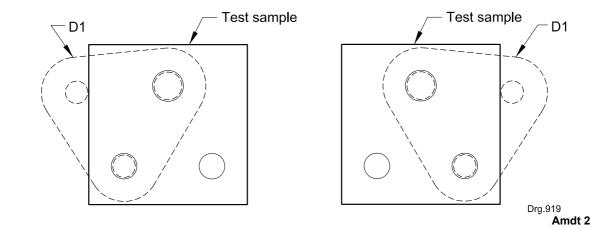
insist the gauge as far as possible into the guidance hole of a socket-outlet. The indicator lamp ascribed in annex A shall light. Amdt 2

NOTE The insulated tips of gauges are for guiding the gauges.

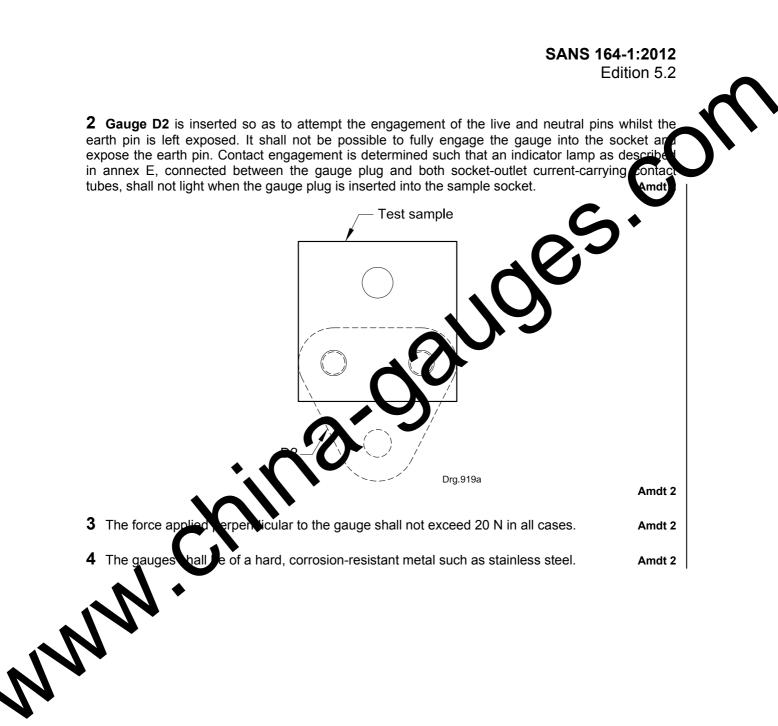


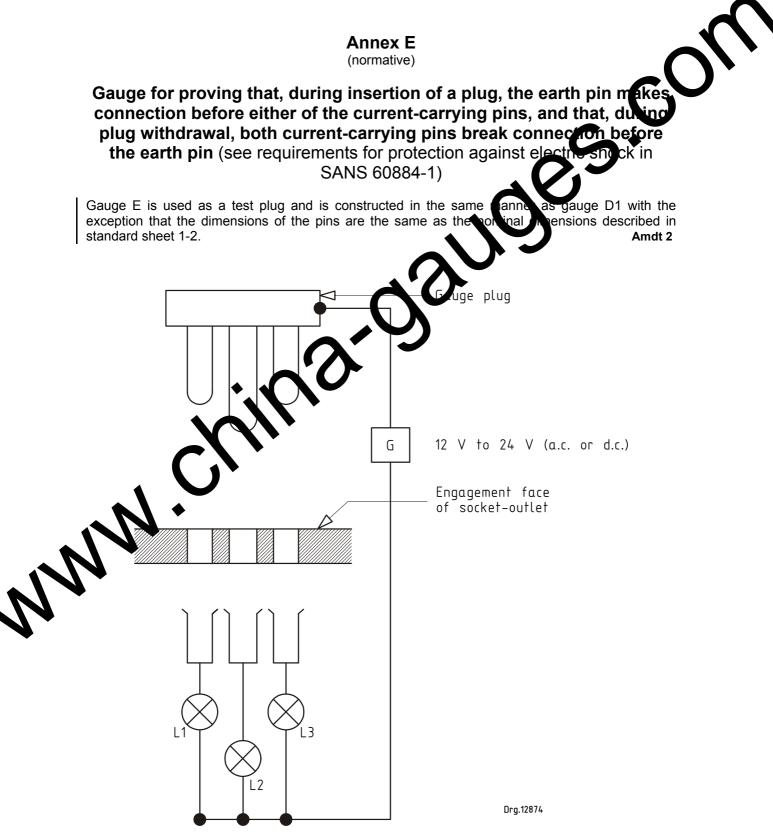


In both cases it shall not be possible to fully engage the gauge into the socket. Contact engagement is determined such that an indicator lamp, as described in annex E, connected between the gauge plug and both socket-outlet current-carrying contact tubes, shall not light when the gauge plug is inserted into the sample socket. Amdt 2



12

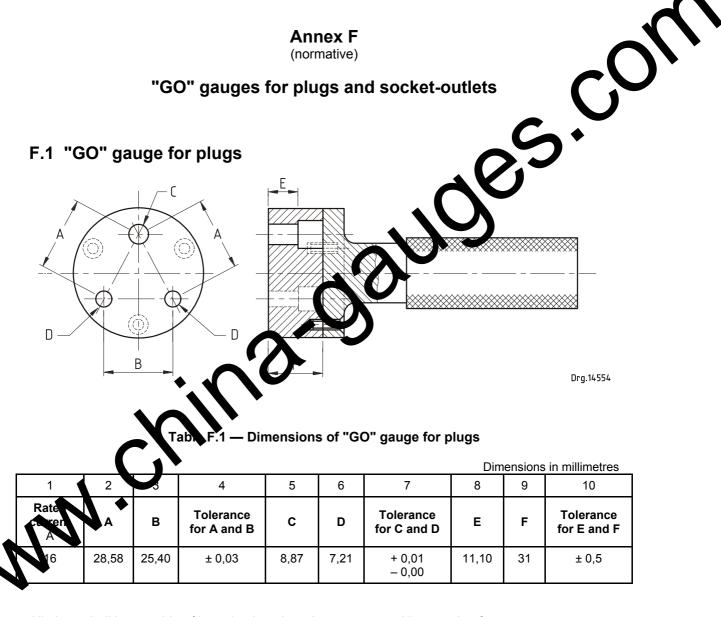




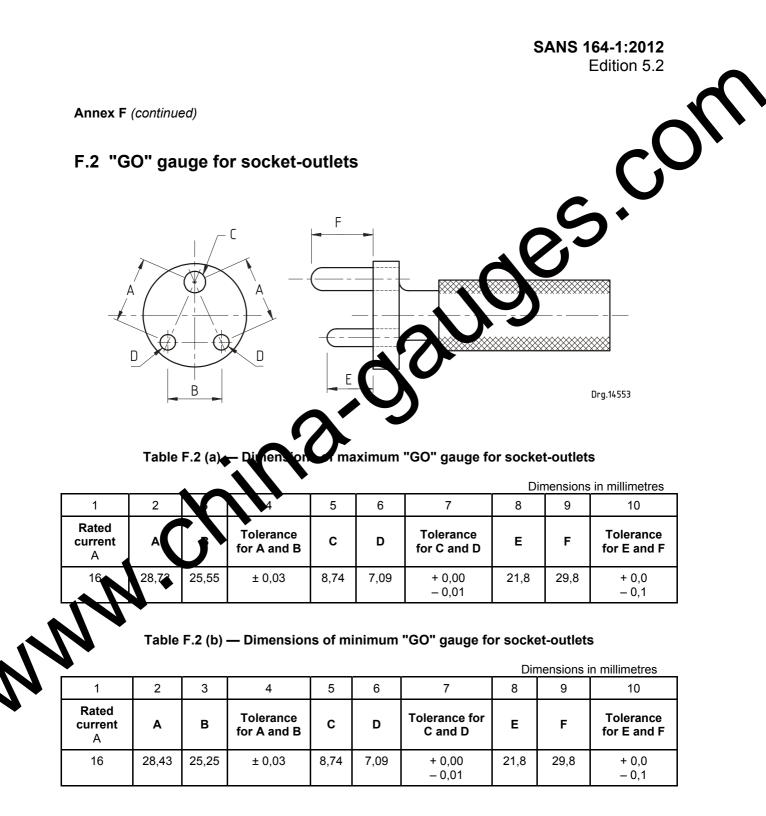
Notes on the application of gauge E

Amdt 2





All plugs shall be capable of insertion into the relevant gauge without undue force.



Both maximum and minimum "GO" gauges shall enter all socket-outlets without undue force.

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