BS ISO 3529-3:2014

BSI Standards Publication

Vacuum technology — Vocabulary

Part 3: Total and partial pressure vacuum gauges

bsi.

...making excellence a habit.™

National foreword

This British Standard is the UK implementation of ISO 3529-3:2014.

The UK participation in its preparation was entrusted to Technical Committee MCE/8/-/4, Vacuum technology.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

ISBN 978 0 580 81460 0

ICS 01.040.23; 23.160

Compliance with a British Standard cannot confer immunity from legal obligations.

This British Standard was published under the authority of the Standards Policy and Strategy Committee on 30 April 2014.

Amendments issued since publication

Date	Text affected

BS ISO 3529-3:2014

INTERNATIONAL STANDARD

ISO 3529-3

Second edition
2014-04-15

Vacuum technology — Vocabulary —

Part 3: Total and partial pressure vacuum gauges

Technique du vide — Vocabulaire —

Partie 3: Manomètres de pression totale et analyseurs de pressions partielles

Reference number
ISO 3529-3:2014(E)

ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
Web www.iso.org

Published in Switzerland

Contents

Page

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: Foreword - Supplementary information

The committee responsible for this document is ISO/TC 112, *Vacuum technology*.

This second edition cancels and replaces the first edition (ISO 3529-3:1981), which has been technically revised in order to include terms of now common vacuum gauges and to adapt terms to new developments and general use of terms in publications.

ISO 3529 consists of the following parts, under the general title *Vacuum technology — Vocabulary*:

— *Part 1: General terms*

— *Part 2: Vacuum pumps and related terms*

— *Part 3: Total and partial pressure vacuum gauges*

INTERNATIONAL STANDARD ISO 3529-3:2014(E)

Vacuum technology — Vocabulary —

Part 3: Total and partial pressure vacuum gauges

1 Scope

This part of ISO 3529 gives definitions of total and partial pressure vacuum gauges. lt is a continuation of ISO 3529-1, which defines general terms used in vacuum technology, and of ISO 3529-2, which gives definitions of vacuum pumps and related terms.

The terms for those gauges are defined, which had been either very important in the past or are important today and normally commercially available or which physical principle is important still today.

2 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

NOTE A tree diagram of total pressure vacuum gauges is illustrated in Figure A.1.

2.1 General terms

2.1.1
pressure gauge
instrument for measuring gas or vapour pressures, greater, equal to or less than the prevailing atmospheric pressure

2.1.2
vacuum gauge
instrument for measuring gas or vapour pressures less than the prevailing atmospheric pressure

Note 1 to entry: A vacuum gauge is a subset of a pressure gauge.

Note 2 to entry: Some types of vacuum gauges commonly in use do not actually measure a pressure (as expressed in terms of a force acting on a surface), but some other physical quantity related to pressure, under specific conditions.

2.1.2.1
gauge head
<of certain types of gauge> part of the gauge which contains the pressure-sensitive element and which is directly connected to the vacuum system

2.1.2.1.1
nude gauge
gauge head without an envelope

Note 1 to entry: In this case, the sensitive element is inserted directly into the vacuum system.

2.1.2.2
control unit
controller
<of certain types of gauge> part of the gauge containing the power supply and all electrical circuitry necessary for the operation of the gauge