INTERNATIONAL STANDARD

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Second edition
2021-11

TPMS snap-in valves —

Part 3: **Performances**

Valves à boutonner («snap-in») pour TPMS —

Partie 3: Performances

Reference number
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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).

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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 31, *Tyres, rims and valves*, Subcommittee SC 9, *Valves for tube and tubeless tyres*.

This second edition cancels and replaces the first edition (ISO 18885-3:2019), which has been technically revised.

The main changes compared to the previous edition are as follows:

— the flexing angle degree for the cycling flexing test has been revised;

— the flexing angle degree for the for the leakage test has been revised.

A list of all parts in the ISO 18885 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

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TPMS snap-in valves —

Part 3:
Performances

1 Scope

This document specifies test methods for TPMS snap-in tubeless valves that determine the minimum level of performances requested.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 9227, *Corrosion tests in artificial atmospheres — Salt spray tests*

ISO 18885-2, *TPMS snap-in valves — Part 2: Valve environment*

3 Terms and definitions

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

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at https://www.iso.org/obp

— IEC Electropedia: available at https://www.electropedia.org/

3.1
unused valve
valve that has completed final curing processing at least 24 h previously, that has not been subjected to any test or service and that has been stored for no longer than four months in the dark at an ambient temperature between 18 °C and 28 °C, in an optimal and non-aggressive environment

Note 1 to entry: Rubber compounds can change characteristics during their life expectancy.

3.2
sealing cap
protective part that is matched with a valve stem and includes an elastomer seal

Note 1 to entry: An example of sealing cap is given in ISO 9413.

3.3
sensor housing
rigid case that is matched with a valve stem and contains TPMS sensor components

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