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TPMS snap-in valves —

Part 2: Valve environment

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

Partie 2: Environnement des valves

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Foreword

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

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

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TPMS snap-in valves —

Part 2:
Valve environment

1 Scope

This document specifies some characteristics of TPMS snap-in valves geometry, valve hole of the rim, mounting process and valve limits.

These parameters are defined to facilitate the use of snap-in valve for TPMS applications on passenger vehicles in different countries.

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 3877-2, *Tyres, valves and tubes — List of equivalent terms — Part 2: Tyre valves*

ISO 18885-1, *TPMS snap-in valves — Part 1: Identification*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 3877-2, ISO 18885-1 and the following apply.

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

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

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

3.1
clamp-in valve
tyre valve having a metallic nut designed to retain and seal the valve in the rim hole

Note 1 to entry: Sealing is usually made by a rubber seal mounted on the valve stem.

3.2
lubricant
substance applied to reduce the insertion force of snap-in valve in the valve hole of the rim

4 Rim hole geometry

Valve hole edges on the tyre side of rims shall be rounded or chamfered; valve hole edges on the weather side of rims shall be free from burrs that could damage the valve.

There should be no radial striations on the flat area around the valve hole.

Valve hole details for snap-in valves shall be as shown in Figure 1 or 2 for rims with 17,3 mm minimum well depth.

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