

# ISO 18885-3:2021-11 (E)

## TPMS snap-in valves - Part 3: Performances

---

<b>Contents</b>		<b>Page</b>
Foreword .....		v
<b>1</b>	<b>Scope .....</b>	<b>1</b>
<b>2</b>	<b>Normative references .....</b>	<b>1</b>
<b>3</b>	<b>Terms and definitions .....</b>	<b>1</b>
<b>4</b>	<b>Conditions for testing TPMS snap-in valves .....</b>	<b>2</b>
4.1	General .....	2
4.2	Test fixtures .....	2
4.3	Installation .....	2
4.4	Ageing .....	2
<b>5</b>	<b>Test methods .....</b>	<b>3</b>
5.1	General .....	3
5.2	Adhesion .....	3
5.2.1	Test method .....	3
5.2.2	Performance .....	3
5.3	Valves core seal .....	3
5.3.1	General .....	3
5.3.2	Room temperature test .....	3
5.3.3	Low temperature test .....	4
5.3.4	High temperature test .....	4
5.4	Valve cap seal (optional, for sealing caps only) .....	4
5.4.1	Test method .....	4
5.4.2	Performance .....	4
5.5	Valve to rim seal .....	5
5.5.1	General .....	5
5.5.2	Low temperature .....	5
5.5.3	High temperature .....	6
5.6	Installation test .....	6
5.6.1	General .....	6
5.6.2	Force to seat .....	6
5.6.3	Force to pull-out only for valve with sensor housing designed to be connected only after valve seating .....	7
5.6.4	Force to pull back (unseating) .....	7
5.7	Burst .....	7
5.7.1	Test method .....	7
5.7.2	Performance .....	7
5.8	Ozone resistance .....	7
5.8.1	Test method .....	7
5.8.2	Performance .....	8
5.9	Flexing resistance .....	8
5.9.1	Test method .....	8
5.9.2	Performance .....	10
5.10	Corrosion test .....	10
5.10.1	Test method .....	10
5.10.2	Performance .....	10
5.11	Valve core torque test .....	11
5.11.1	Test method .....	11
5.11.2	Performance .....	11

<b>5.12</b>	<b>Valve core cycling test .....</b>	<b>11</b>
<b>5.12.1</b>	<b>Test method .....</b>	<b>11</b>
<b>5.12.2</b>	<b>Performance .....</b>	<b>12</b>
<b>5.13</b>	<b>Valve flow rate .....</b>	<b>12</b>
<b>5.13.1</b>	<b>Test method .....</b>	<b>12</b>
<b>5.13.2</b>	<b>Performance .....</b>	<b>12</b>
<b>Bibliography .....</b>		<b>13</b>