

# ISO 9413:2019-11 (E)

## Tyre valves - Dimensions and designation

---

<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>Valves and valve components for tyre identification system .....</b>	<b>1</b>
<b>5</b>	<b>Tubeless valves only .....</b>	<b>2</b>
5.1	Snap-in valves .....	2
5.1.1	Valve hole 11 3 0 0 4 , , + .....	2
5.1.2	Valve hole 15 7 0 0 4 , , + .....	3
5.2	Clamp-in valves .....	4
5.2.1	Clamp-in valves with O-ring .....	4
5.2.2	Clamp-in valves with grommet .....	17
<b>6</b>	<b>Valves for tubes only .....</b>	<b>30</b>
6.1	Rubber-covered valves .....	30
6.1.1	Valve hole 8 3 0 1 0 5 , , , - + .....	30
6.1.2	Valve hole 11 3 0 0 4 , , + .....	31
6.1.3	Valve hole 15 7 0 0 4 , , + .....	32
6.2	Rubber-base valves .....	38
6.2.1	Valve hole 6,2 .....	38
6.2.2	Valve hole 8 3 0 1 0 5 , , , - + .....	40
6.2.3	Rim slot 12 5 0 , + and 14 0 3+ .....	42
6.2.4	Valve hole 12 5 0 , +0, .....	45
6.2.5	Valve hole 15 7 0 , +0, .....	46
6.3	Rubber semi-covered-base valve -- Valve hole 10 2 0 0 3 , , + or 11 3 0 0 4 , , + .....	47
6.4	Screw-on universal valves -- Rim slots 12 5 0 , + and 14 0 3+ .....	48
6.5	Large-bore valves -- Rim slot 19 0 3+ .....	54
6.6	Metal-base valve .....	57
6.6.1	Valve hole 6,2 .....	57
6.6.2	Valve hole 8,3 .....	58
<b>7</b>	<b>Spuds, valve bodies and adaptors .....</b>	<b>60</b>
7.1	Rubber spuds .....	60
7.1.1	Spuds for screw-on universal valves -- Rim slots 12 5 0 , + and 15 0 2+ .....	60
7.1.2	Rubber-covered air/liquid spuds -- Valve hole 15 7 0 0 4 , , + .....	61
7.1.3	Screw-on large-bore spuds -- Valve hole 20 5 0 0 5 , , + and rim slot 19 0 3+ mm .....	62
7.2	Clamp-in spuds .....	62
7.2.1	Air/liquid large-bore spud -- Valve hole 15 7 0 0 4 , , + .....	62
7.2.2	Valve hole 20 5 0 0 5 , , + .....	64
7.3	Valve body and core housing .....	66
7.3.1	Tubeless and tube-type core housing for spuds with valve hole 15 7 0 0 4 , , + .....	66
7.3.2	Large and super-large-bore valve body for spuds with valve hole 20 5 0 0 5 , , + .....	67
7.4	Adaptors .....	73
7.4.1	Straight adaptor .....	73
7.4.2	Bent adaptor .....	74

8	Valve components .....	75
8.1	O-rings .....	75
8.2	Ring washers .....	75
8.3	Hex nuts .....	76
8.4	Knurled nuts, hex nuts, screw .....	78
8.5	Rubber grommets .....	81
8.6	Valve caps .....	83
8.7	Valve core .....	88
8.7.1	For ISO core chamber No. 1, No. 3 (short core only) and No. 4 (short core only) 88	88
	For ISO core chamber No. 2 .....	89
Annex A (normative) Valves and valve components for tyres – Identification system .....		90
Annex B (informative) Correspondence between ISO designations and other designations .....		94
Bibliography .....		105