

ISO 9413:2019-11 (E)

Tyre valves - Dimensions and designation

Contents		Page
Foreword		v
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Valves and valve components for tyre identification system	1
5	Tubeless valves only	2
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
6	Valves for tubes only	30
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
7	Spuds, valve bodies and adaptors	60
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)Valvesandvalvecomponentsfortyres--Identificationsystem		90
Annex B (informative) Correspondence between ISO designations and other designations		94
Bibliography		105