

# Tyres, valves and tubes — kPa/psi equivalencies for inflation pressures

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## National foreword

This Published Document is the UK implementation of ISO/TR 29846:2008.

The UK participation in its preparation was entrusted to Technical Committee AUE/4, Tyres and wheels for motor vehicles.

A list of organizations represented on this committee can be obtained on request to its secretary.

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**Tyres, valves and tubes — kPa/psi  
equivalencies for inflation pressures**

*Pneus, valves et chambres à air — Équivalences kPa/psi de pression  
de gonflage*



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## Foreword

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ISO/TR 29846 was prepared by Technical Committee ISO/TC 31, *Tyres, rims and valves*.

## Introduction

All International Standards and activities produced by ISO/TC 31 use SI units, with tyre inflation pressures referenced in units of either kilopascals (kPa) or bar<sup>1)</sup>. However, there are certain regions and countries around the world where customary units (Imperial units) are still used, with tyre inflation pressures referenced in pounds per square inch (psi). In those regions, there is therefore a need to establish standard equivalencies between the different units of tyre inflation pressure in the interests of promoting standardization.

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1) 0,01 bar = 1 kPa.

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## **1 Scope**

This Technical Report contains assigned kPa values for whole psi values in the range of 1 psi to 152 psi, for inflation pressures for use in certain regions of the world that require the use of psi for inflation pressures.

These equivalencies are intended for future applications and do not apply to past practices.

## **2 kPa/psi equivalency table**

The equivalencies given in Table 1 have been established for the tyre industry, but may be applicable for other applications, as appropriate.

Table 1 — Assigned kPa values for psi increments

kPa	psi	kPa	psi	kPa	psi	kPa	psi
10	1	270	39	530	77	790	115
15	2	275	40	540	78	800	116
20	3	280	41	545	79	810	117
25	4	290	42	550	80	815	118
35	5	295	43	560	81	820	119
40	6	300	44	565	82	825	120
45	7	310	45	575	83	835	121
55	8	320	46	580	84	840	122
60	9	325	47	585	85	850	123
70	10	330	48	590	86	855	124
75	11	340	49	600	87	860	125
80	12	345	50	610	88	870	126
90	13	350	51	615	89	875	127
95	14	360	52	620	90	880	128
100	15	365	53	625	91	890	129
110	16	375	54	635	92	900	130
120	17	380	55	640	93	905	131
125	18	385	56	650	94	910	132
130	19	390	57	655	95	920	133
140	20	400	58	660	96	925	134
145	21	410	59	670	97	930	135
150	22	415	60	675	98	940	136
160	23	420	61	680	99	945	137
165	24	425	62	690	100	950	138
170	25	435	63	695	101	960	139
180	26	440	64	700	102	965	140
185	27	450	65	710	103	975	141
190	28	455	66	720	104	980	142
200	29	460	67	725	105	985	143
210	30	470	68	730	106	990	144
215	31	475	69	740	107	1 000	145
220	32	480	70	745	108	1 010	146
230	33	490	71	750	109	1 015	147
235	34	495	72	760	110	1 020	148
240	35	500	73	765	111	1 030	149
250	36	510	74	775	112	1 035	150
255	37	520	75	780	113	1 040	151
260	38	525	76	785	114	1 050	152





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