

# METRIC HEXAGON KEYS

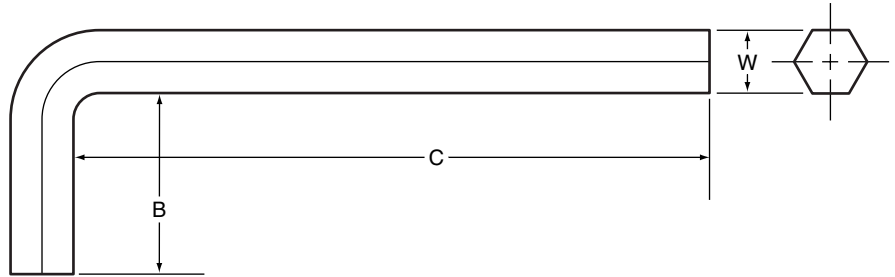
Dimensions ■ Mechanical Properties ■ Socket Applications

These UNBRAKO keys are made to higher requirements than ISO or DIN keys, which may not properly torque Class 12.9 cap screws. The strength and dimensional requirements are necessary to properly install the products in this catalog.

**Material:** ANSI B18.3.2.M alloy steel

**Dimensions:** ANSI B18.3.2.M

**Similar Specifications:** DIN 911, ISO 2936



## METRIC KEY APPLICATION CHART

size W	socket cap screws		socket cap screws	flat head socket cap screws	button head shoulder screws	socket set screws
	std. head height	low head				
0.7 0.9 1.3						M1.6 M2 M2.5
1.5 2.0 2.5	M1.6/M2 M2.5 M3		M3 M4	M3 M4		M3 M4 M5
3.0 4.0 5.0	M4 M5 M6	M4 M5 M6	M5 M6 M8	M5 M6 M8	M6 M8 M10	M6 M8 M10
6.0 8.0 10.0	M8 M10 M12	M8 M10 M12	M10 M12 M16	M10 M12 M16	M12 M16 M20	M12 M16 M20
12.0 14.0 17.0	M14 M16 M20	M16 M20 M24	M20 M24		M24	M24
19.0 22.0 27.0	M24 M30 M36					
32.0 36.0	M42 M48					

## DIMENSIONS

## MECHANICAL PROPERTIES

key size W		B nominal	C nominal		torsional shear strength minimum		torsional yield strength minimum	
max.	min.		short arm	long arm	N-m	In-lbs.	N-m	In-lbs.
0.711 0.889 1.270	0.698 0.876 1.244	5.5 9 13.5	31 31 42	*69 71 75	0.12 0.26 0.73	1.1 2.3 6.5	0.1 0.23 .63	0.9 2. 5.6
1.500 2.000 2.500	1.470 1.970 2.470	14 16 18	45 50 56	78 83 90	1.19 2.9 5.4	10.5 26 48	1.02 2.4 4.4	9. 21 39
3.000 4.000 5.000	2.960 3.960 4.960	20 25 28	63 70 80	100 106 118	9.3 22.2 42.7	82 196 378	8. 18.8 36.8	71 166 326
6.000 8.000 10.000	5.960 7.950 9.950	32 36 40	90 100 112	140 160 170	74 183 345	655 1,620 3,050	64 158 296	566 1,400 2,620
12.000 14.000 17.000	11.950 13.930 16.930	45 55 60	125 140 160	212 236 250	634 945 1,690	5,610 8,360 15,000	546 813 1,450	4,830 7,200 12,800
19.000 22.000 24.000	18.930 21.930 23.930	70 80 90	180 *200 *224	280 *335 *375	2,360 3,670 4,140	20,900 32,500 36,600	2,030 3,160 3,560	18,000 28,000 31,500
27.000 32.000 36.000	26.820 31.820 35.820	100 125 140	*250 *315 *355	*500 *630 *710	5,870 8,320 11,800	51,900 73,600 104,000	5,050 7,150 10,200	44,700 63,300 90,300

All dimensions in millimeters.

\*Non-stock sizes