

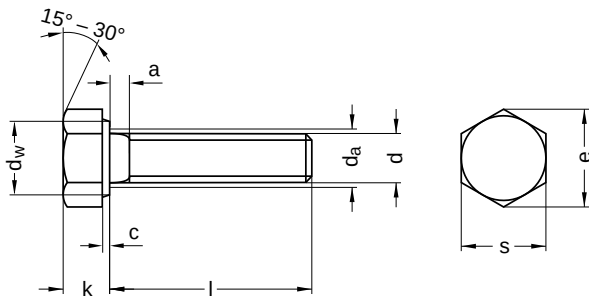
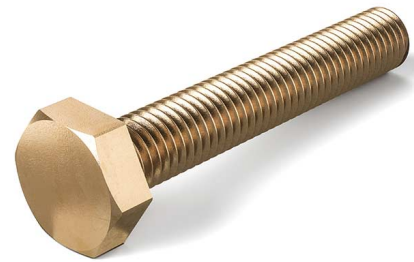
**DIN 933** similar to ISO 4017

## Hexagon head bolts

Hexagon head | external hex | fully threaded

Brass | Cr(VI)-free | Metric thread

Further information: DIN-standard has been withdrawn | changed spanner widths for M10, M12, M14 and M22 | screws can be paired with a 6h tolerance-compliant female thread



Diameter (d)	a		c		d <sub>a</sub> max.	d <sub>w</sub> min.	e min.	k			r min.	s		Pitch (P)
	max.	min.	max.	min.				max.	nominal size	min.		max.	max.	
M 3	1.50	0.15	0.4	3.6	4.6	6.04	2.0	1.88	2.12	0.10	5.5	5.32	0.50	
M 4	2.10	0.15	0.4	4.7	5.7	7.50	2.8	2.60	3.00	0.20	7.0	6.64	0.70	
M 5	2.40	0.15	0.5	5.7	6.7	8.63	3.5	3.35	6.35	0.20	8.0	7.64	0.80	
M 6	3.00	0.15	0.5	6.8	8.7	10.89	4.0	3.76	4.24	0.25	10.0	9.64	1.00	
M 8	3.75	0.15	0.6	9.2	11.4	14.20	5.3	5.06	5.54	0.40	13.0	12.57	1.25	
M 10	4.50	0.15	0.6	11.2	15.4	18.72	6.4	6.11	6.69	0.40	17.0	16.57	1.50	
M 12	5.25	0.15	0.6	13.7	17.2	20.88	7.5	7.21	7.79	0.60	19.0	18.48	1.75	
M 16	6.00	0.20	0.8	17.7	22.0	26.17	10.0	9.71	10.29	0.60	24.0	23.16	2.00	
M 20	7.50	0.20	0.8	22.4	27.7	32.95	12.5	12.15	12.85	0.80	30.0	29.16	2.50	

nominal size	Length (l)	
	min.	max.
5	4.76	5.24
6	5.76	6.24
8	7.71	8.29
10	9.71	10.29
12	11.65	12.35
16	15.65	16.35
20	19.58	20.42
25	23.95	26.05

nominal size	Length (l)	
	min.	max.
30	28.95	31.05
35	33.75	36.25
40	38.75	41.25
45	43.75	46.25
50	48.75	51.25
55	53.50	56.50
60	58.50	61.50
65	63.50	66.50

nominal size	Length (l)	
	min.	max.
70	68.50	71.50
75	73.50	76.50
80	78.50	81.50
90	88.25	91.75
100	98.25	101.75

All technical data refer to the measure mm

