

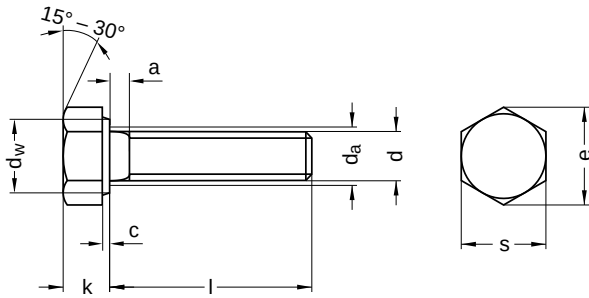
**DIN 933** similar to ISO 4017

## Hexagon head bolts

Hexagon head | external hex | fully threaded

Steel 8.8 | zinc-plated | 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Further information: DIN-standard has been withdrawn | changed spanner widths for M10, M12, M14 and M22 | screws can be paired with a 6h tolerance-compliant female thread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>	d <sub>w</sub>	e	k			r	s		Pitch (P)
	max.	min.	min.	max.	max.	min.	min.	nominal size	min.	max.	min.	max.	min.	
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 14	6.00	0.15	0.6		15.7	20.1	23.91	8.8	8.51	9.09	0.60	22.0	21.16	2.00
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 18	7.50	0.20	0.8		20.2	24.8	29.56	11.5	11.15	11.85	0.60	27.0	26.15	2.50
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
M 24	9.00	0.20	0.8		26.4	33.2	39.55	15.0	14.65	15.35	0.80	36.0	35.00	3.00
M 27	9.00	0.20	0.8		30.4	38.0	45.20	17.0	16.65	17.35	1.00	41.0	40.00	3.00
M 30	10.50	0.20	0.8		33.4	42.7	50.85	18.7	18.28	19.12	1.00	46.0	45.00	3.50
M 36	12.00	0.20	0.8		39.4	51.1	60.79	22.5	22.08	22.92	1.00	55.0	53.80	4.00

All technical data refer to the measure mm



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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
14	13.65	14.35
16	15.65	16.35
18	17.65	18.35
20	19.58	20.42
22	20.95	23.05
25	23.95	26.05
28	26.95	29.05
30	28.95	31.05
35	33.75	36.25

nominal size	Length (l)	
	min.	max.
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
70	68.50	71.50
75	73.50	76.50
80	78.50	81.50
85	83.25	86.75
90	88.25	91.75
95	93.25	96.75
100	98.25	101.75
110	108.25	111.75

nominal size	Length (l)	
	min.	max.
120	118.25	121.75
130	128.00	132.00
140	138.00	142.00
150	148.00	152.00
160	158.00	162.00
170	168.00	172.00
180	178.00	182.00
190	187.70	192.30
200	197.70	202.30
220	217.70	222.30
240	237.70	242.30
260	257.40	262.60
280	277.40	282.60
300	297.40	302.60

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