DIN 933 similar to ISO 4017

Hexagon head bolts

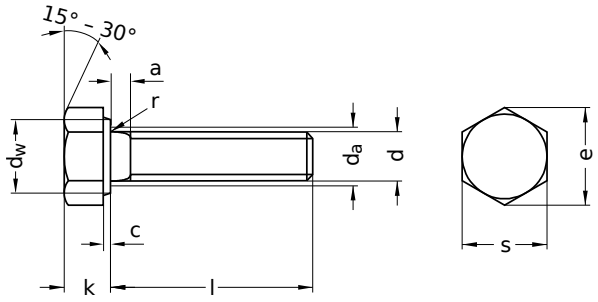
Hexagon head | external hex | fully threaded



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Further information: DIN-standard has been withdrawn | changed spanner widths for M10, M12, M14 and M22 | screws can be paired with a 6h tolerance-compliant female thread

There is a separation into product classes A and B, with the data sheet showing the largest range of values. For more information, see the technical details of the selected article.



Diameter (d)	Tool size	a max.	c min.	c max.	d_a max.	d_w min.	e min.	k nominal size	k min.	k max.	r min.	s max.	s min.	Pitch (P)
M3	SW 5,5	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
M4	SW 7	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
M5	SW 8	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
M6	SW 10	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
M8	SW 13	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
M10	SW 17	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
M12	SW 19	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
M14	SW 22	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
M16	SW 24	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
M18	SW 27	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
M20	SW 30	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
M24	SW 36	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
M27	SW 41	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
M30	SW 46	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
M36	SW 55	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

All technical data without obligation. Subject to technical changes and errors.

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Hexagon head | external hex | fully threaded

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Length (l)		
nominal size	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

Length (l)		
nominal size	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

Length (l)		
nominal size	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
200	197.70	202.30
220	217.70	222.30
240	237.70	242.30
280	277.40	282.60

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Diameter	Length (l)																		
(d)	5	6	8	10	12	14	16	18	20	22	25	28	30	35	40	45	50	55	60
M3	●	●	●	●	●		●		●										
M4		●	●	●	●		●	●	●		●		●	●	●		●		
M5		●	●	●	●	●	●	●	●		●		●	●	●	●	●	●	
M6		●	●	●	●	●	●	●	●	●	●		●	●	●	●	●	●	●
M8			●	●	●	●	●	●	●	●	●		●	●	●	●	●	●	●
M10					●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
M12							●		●		●		●	●	●	●	●	●	●
M14											●		●	●	●	●	●	●	●
M16									●		●		●	●	●	●	●	●	●
M18													●	●		●	●		●
M20											●		●	●	●	●	●	●	●
M24															●	●	●	●	●
M27																			●
M30																	●		●
M36																			

Diameter	Length (l)																		
(d)	65	70	75	80	85	90	95	100	110	120	130	140	150	160	170	180	200	220	240	280
M3																				
M4																				
M5		●																		
M6	●	●	●	●		●														
M8	●	●	●	●	●	●		●	●	●	●	●	●							
M10	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●				
M12	●	●	●	●	●	●	●	●	●	●	●	●	●	●		●	●			
M14	●	●				●				●										
M16	●	●	●	●	●	●		●	●	●	●	●	●	●		●	●			
M18		●						●												
M20	●	●	●	●	●	●		●	●	●	●	●	●	●		●	●	●	●	●
M24	●	●	●	●	●	●		●	●	●		●		●		●	●			
M27		●		●				●												
M30	●	●		●		●		●		●						●	●			
M36				●		●			●		●	●	●	●		●				

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