DIN 931 similar to ISO 4014

Hexagon head bolts

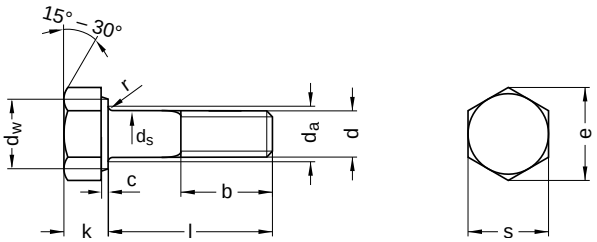
Hexagon head | external hex | with body



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Further information: DIN-standard has been withdrawn | changed spanner widths for M10, M12, M14 and M22 | screws can be paired with a 6h tolerance-compliant female thread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	b			c		d_a	d_s
		l up to 125	l up to 200	l longer than 200	min.	max.	max.	max.
M4	SW 7	14	20	33	0.15	0.4	4.7	4
M5	SW 8	16	22	35	0.15	0.5	5.7	5
M6	SW 10	18	24	37	0.15	0.5	6.8	6
M8	SW 13	22	28	41	0.15	0.6	9.2	8
M10	SW 17	26	32	45	0.15	0.6	11.2	10
M12	SW 19	30	36	49	0.15	0.6	13.7	12
M14	SW 22	34	40	53	0.15	0.6	15.7	14
M16	SW 24	38	44	57	0.20	0.8	17.7	16
M18	SW 27	42	48	61	0.20	0.8	20.2	18
M20	SW 30	46	52	65	0.20	0.8	22.4	20
M24	SW 36	54	60	73	0.20	0.8	26.4	24
M27	SW 41	60	66	79	0.20	0.8	30.4	27
M30	SW 46	66	72	85	0.20	0.8	33.4	30
M33	SW 50	72	78	91	0.20	0.8	36.4	33
M36	SW 55	78	84	97	0.20	0.8	39.4	36

Diameter (d)	d_w min.	e min.	k		r min.	s		Pitch (P)
			min.	max.		max.	min.	
M4	5.74	7.50	2.60	3.00	0.20	7	6.64	0.70
M5	6.74	8.63	3.26	3.74	0.20	8	7.64	0.80
M6	8.74	10.89	3.76	4.24	0.25	10	9.64	1.00
M8	11.47	14.20	5.06	5.54	0.40	13	12.57	1.25
M10	14.47	17.59	6.11	6.69	0.40	17	16.73	1.50
M12	16.47	19.85	7.21	7.79	0.60	19	18.67	1.75
M14	20.50	24.49	8.62	8.98	0.60	22	21.67	2.00

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

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Diameter	d_w	e	k		r	s		Pitch
(d)	min.	min.	min.	max.	min.	max.	min.	(P)
M18	24.80	29.56	11.15	11.85	0.60	27	26.16	2.50
M20	27.70	32.95	12.15	12.85	0.80	30	29.16	2.50
M24	33.25	39.55	14.65	15.35	0.80	36	35.00	3.00
M27	38.00	45.20	16.65	17.35	1.00	41	40.00	3.00
M30	42.75	50.85	18.28	19.12	1.00	46	45.00	3.50
M33	46.60	55.37	20.58	21.42	1.00	50	49.00	3.50
M36	51.11	60.79	22.08	22.92	1.00	55	53.80	4.00

Length (l)		
nominal size	min.	max.
30	29.58	30.42
35	34.50	35.50
40	39.50	40.50
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	74.40	75.60
80	78.50	81.50
85	83.25	86.75

Length (l)		
nominal size	min.	max.
90	88.25	91.75
95	93.25	96.75
100	98.25	101.75
105	103.25	106.75
110	108.25	111.75
115	113.25	116.75
120	118.25	121.75
125	123.00	127.00
130	128.00	132.00
140	138.00	142.00
150	148.00	152.00
160	158.00	162.00

Length (l)		
nominal size	min.	max.
170	168.00	172.00
180	178.00	182.00
190	187.70	192.30
200	197.70	202.30
210	207.70	212.30
220	217.70	222.30
240	237.70	242.30
250	247.70	252.30
260	257.40	262.60
280	277.40	282.60
300	297.40	302.60

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Diameter	Length (l)																
(d)	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110
M4		●	●														
M5	●	●	●	●	●	●	●		●								
M6	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		●
M8		●	●	●	●	●	●	●	●	●	●	●	●		●		●
M10		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
M12			●	●	●	●	●	●	●	●	●	●	●	●	●		●
M14					●	●	●	●		●			●				
M16					●	●	●	●	●	●	●	●	●	●	●		●
M18																	●
M20							●	●	●	●	●	●	●	●	●		●
M24									●	●	●		●		●		●
M27															●		
M30															●		●
M33																	●
M36																	

Diameter	Length (l)																
(d)	115	120	125	130	140	150	160	170	180	190	200	210	220	240	250	260	280	300
M4																		
M5																		
M6				●														
M8		●		●	●	●	●	●	●	●								
M10		●		●	●	●	●	●	●	●	●			●				
M12	●	●		●	●	●	●	●	●	●	●		●	●		●		●
M14				●														
M16		●	●	●	●	●	●	●	●		●	●			●			
M18					●		●											
M20		●		●	●	●	●	●	●			●	●					
M24		●		●	●	●	●	●	●		●	●		●				
M27					●			●							●			
M30		●		●					●		●		●				●	
M33		●				●			●									
M36		●		●	●	●	●				●						●	

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