DIN 931 similar to ISO 4014

Hexagon head bolts

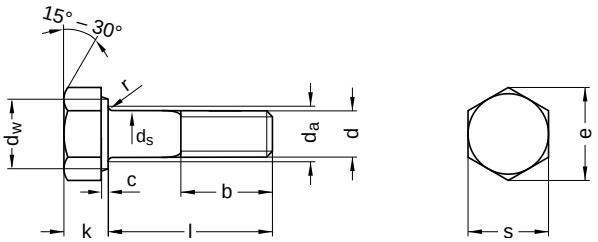
Hexagon head | external hex | with body



Steel 10.9 | bright | 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Further information: DIN-standard has been withdrawn | changed spanner widths for M10, M12, M14 and M22 | screws can be paired with a 6h tolerance-compliant female thread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.
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
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
M36	SW 55	78	84	97	0.20	0.8	39.4	36

Diameter (d)	d_w	e	k		r	s		Pitch
	min.	min.	min.	max.	min.	max.	min.	(P)
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
M16	22.00	26.17	9.71	10.29	0.60	24	23.16	2.00
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
M36	51.11	60.79	22.08	22.92	1.00	55	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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Length (l)		
nominal size	min.	max.
30	29.58	30.42
35	34.50	35.50
40	39.50	40.50
45	44.50	45.50
50	49.50	50.50
55	54.40	55.60
60	59.40	60.60
65	63.50	66.50
70	68.50	71.50
75	74.40	75.60

Length (l)		
nominal size	min.	max.
80	78.50	81.50
85	84.40	85.60
90	88.25	91.75
95	94.30	95.70
100	98.25	101.75
110	108.25	111.75
120	118.25	121.75
130	128.00	132.00
140	138.00	142.00
150	148.00	152.00

Length (l)		
nominal size	min.	max.
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
240	237.70	242.30
260	257.40	262.60
280	277.40	282.60

Diameter	Length (l)																									
(d)	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	110	120	130	140	150	160	170	180	190	200	240	260	280
M6	●	●	●	●	●	●	●	●	●		●		●															
M8		●	●	●	●	●	●	●	●	●	●		●		●	●	●	●	●									
M10			●	●	●	●	●	●	●	●	●	●	●		●	●	●	●	●	●	●	●	●					
M12				●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●					
M14					●	●	●	●			●					●	●											
M16					●	●	●	●	●	●	●		●		●	●	●	●	●	●	●	●	●					
M20								●	●	●	●	●	●		●	●	●	●	●	●	●	●	●	●				
M24										●	●		●		●	●	●	●	●	●	●	●	●			●		
M27													●				●	●			●				●			
M30													●		●			●		●			●	●	●	●	●	●
M36																	●		●				●					

All technical data refer to the measure mm

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