

DIN 933 similar to ISO 4017

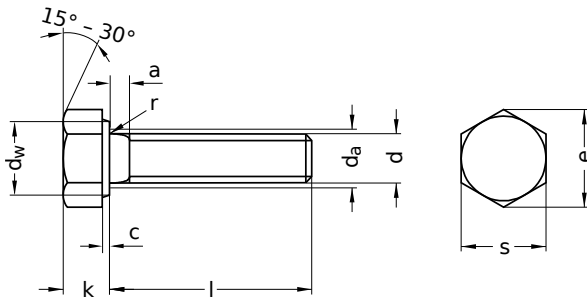
Hexagon head bolts

Hexagon head | external hex | fully threaded

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Further information: DIN-standard has been withdrawn | changed spanner widths for M10, M12, M14 and M22 | screws can be paired with a 6h tolerance-compliant female thread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)	a		c		d _a	d _w	e	k		r	s		Pitch (P)	Tool size	
	max.	min.	max.	min.	max.	min.	nominal size	min.	max.	min.	max.	min.			
M6	3.00	0.15	0.5	0.5	6.8	8.7	10.89	4.0	3.76	4.24	0.25	10	9.64	1.00	SW 10
M8	3.75	0.15	0.6	0.6	9.2	11.4	14.20	5.3	5.06	5.54	0.40	13	12.57	1.25	SW 13
M10	4.50	0.15	0.6	0.6	11.2	15.4	18.72	6.4	6.11	6.69	0.40	17	16.57	1.50	SW 17
M12	5.25	0.15	0.6	0.6	13.7	17.2	20.88	7.5	7.21	7.79	0.60	19	18.48	1.75	SW 19
M14	6.00	0.15	0.6	0.6	15.7	20.1	23.91	8.8	8.51	9.09	0.60	22	21.16	2.00	SW 22
M16	6.00	0.20	0.8	0.8	17.7	22.0	26.17	10.0	9.71	10.29	0.60	24	23.16	2.00	SW 24
M18	7.50	0.20	0.8	0.8	20.2	24.8	29.56	11.5	11.15	11.85	0.60	27	26.15	2.50	SW 27
M20	7.50	0.20	0.8	0.8	22.4	27.7	32.95	12.5	12.15	12.85	0.80	30	29.16	2.50	SW 30
M22	7.50	0.20	0.8	0.8	24.4	29.5	35.03	14.0	13.65	14.35	0.80	32	31.00	2.50	SW 32
M24	9.00	0.20	0.8	0.8	26.4	33.2	39.55	15.0	14.65	15.35	0.80	36	35.00	3.00	SW 36
M27	9.00	0.20	0.8	0.8	30.4	38.0	45.20	17.0	16.65	17.35	1.00	41	40.00	3.00	SW 41
M30	10.50	0.20	0.8	0.8	33.4	42.7	50.85	18.7	18.28	19.12	1.00	46	45.00	3.50	SW 46
M36	12.00	0.20	0.8	0.8	39.4	51.1	60.79	22.5	22.08	22.92	1.00	55	53.80	4.00	SW 55
M42	13.50	0.30	1.0	1.0	45.6	59.9	71.30	26.0	25.58	26.42	1.20	65	63.10	4.50	SW 65

All technical data refer to the measure mm



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nominal size	Length (l)	
	min.	max.
10	9.71	10.29
12	11.65	12.35
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
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

nominal size	Length (l)	
	min.	max.
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
90	88.25	91.75
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

nominal size	Length (l)	
	min.	max.
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
210	207.70	212.30
220	217.70	222.30
240	237.70	242.30

Diameter (d)	Length (l)																																				
	10	12	16	18	20	22	25	30	35	40	45	50	55	60	65	70	75	80	90	100	110	120	130	140	150	160	170	180	190	200	210	220	240				
M6	●	●	●	●	●		●	●	●	●																											
M8		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
M10			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
M12			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
M14							●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
M16					●		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
M18															●	●		●	●																		
M20															●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
M22																																					
M24																																					
M27																																					
M30																																					
M36																																					
M42																																					

• Combinations available in the eShop | Other sizes on request

All technical data refer to the measure mm

