

DIN 933 similar to ISO 4017

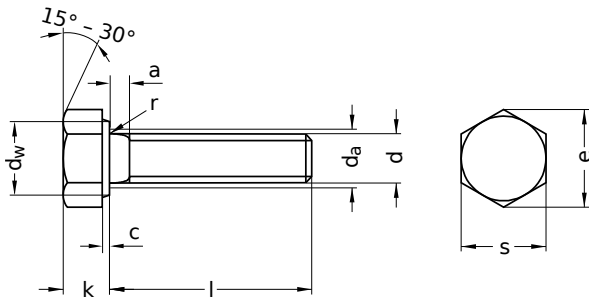
Hexagon head bolts

Hexagon head | external hex | fully threaded

Steel 8.8 | hot-dip galvanised | 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Further information: DIN-standard has been withdrawn | changed spanner widths for M10, M12, M14 and M22 | screws can be paired with a 6h tolerance-compliant female thread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.	min.	nominal size	min.	max.	min.	max.			
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
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
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
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
M45	13.50	0.30	1.0	1.0	48.6	64.7	76.95	28.0	27.58	28.42	1.20	70	68.10	4.50	SW 70

nominal size	Length (l)	
	min.	max.
12	11.65	12.35
16	15.65	16.35
20	19.58	20.42
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

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

nominal size	Length (l)	
	min.	max.
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

All technical data refer to the measure mm



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Diameter (d)	Length (l)																						
	12	16	20	25	30	35	40	45	50	55	60	65	70	75	80	90	100	110	120	130	140	150	
M6			●																				
M8	●	●	●	●	●	●	●	●	●		●		●		●	●							
M10		●	●	●	●	●	●	●	●	●					●	●	●						
M12		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		●				●
M16			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		●	●			
M20				●	●	●		●	●	●	●	●	●	●	●	●	●		●				
M22																	●						
M24							●	●	●	●	●	●	●		●	●	●		●	●	●	●	●
M30																●	●		●				
M45																						●	

● Combinations available in the eShop | Other sizes on request

All technical data refer to the measure mm

