DIN 933 similar to ISO 4017

Hexagon head bolts

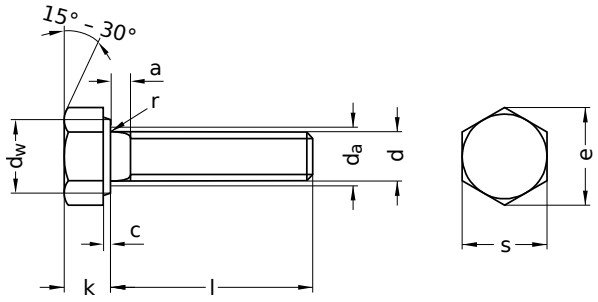
Hexagon head | external hex | fully threaded



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Further information: DIN-standard has been withdrawn | changed spanner widths for M10, M12, M14 and M22 | screws can be paired with a 6h tolerance-compliant female thread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)	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)
M6	SW 10	3.00	0.15	0.5	6.8	8.7	10.89	4.0	3.76	4.24	0.25	10	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	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	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	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	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	23.16	2.00
M20	SW 30	7.50	0.20	0.8	22.4	27.7	32.95	12.5	12.15	12.85	0.80	30	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	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	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	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	53.80	4.00

Length (l)		
nominal size	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

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

Length (l)		
nominal size	min.	max.
110	108.25	111.75
140	138.00	142.00
160	158.00	162.00
180	178.00	182.00
200	197.70	202.30
240	237.70	242.30

All technical data refer to the measure mm

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

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

All technical data refer to the measure mm

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