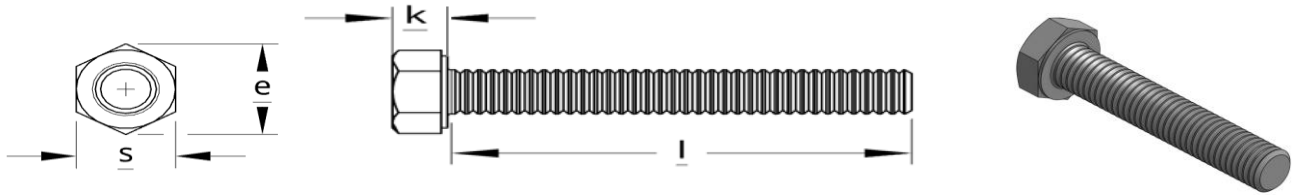


HEXAGON HEAD SCREWS THREADED UP TO THE HEAD

DIN 933



Size	Pitch	s			e		k			
		Width Across Flats			Width Across Corners		Head Height			
		Grade A	Grade A/B	Grade B	Grade A	Grade B	Grade A		Grade B	
		Min	Max = Nominal Size	Min	Min	Min	Min	Max	Min	Max
M1.6	0.35	3.02	3.20	-	3.41	-	0.98	1.22	-	-
M2	0.40	3.82	4.00	-	4.32	-	1.28	1.52	-	-
M2.5	0.45	4.82	5.00	-	5.45	-	1.58	1.82	-	-
M3	0.50	5.32	5.50	-	6.01	-	1.88	2.12	-	-
M3.5	0.60	5.82	6.00	-	6.58	-	2.28	2.52	-	-
M4	0.70	6.78	7.00	6.64	7.66	7.50	2.68	2.92	2.60	3.00
M5	0.80	7.78	8.00	7.64	8.79	8.63	3.35	3.65	3.26	3.74
M6	1.00	9.78	10.00	9.64	11.05	10.89	3.85	4.15	3.76	4.24
M7	1.00	10.73	11.00	10.57	12.12	11.94	4.65	4.95	4.56	5.04
M8	1.25	12.73	13.00	12.57	14.38	14.20	5.15	5.45	5.06	5.54
M10	1.50	16.73	17.00	16.57	18.90	18.72	6.22	6.56	6.11	6.69
M12	1.75	18.67	19.00	18.48	21.10	20.88	7.32	7.68	7.21	7.79
M14	2.00	21.67	22.00	21.16	24.49	23.91	8.62	8.98	8.51	9.09
M16	2.00	23.67	24.00	23.16	26.75	26.17	9.82	10.18	9.71	10.29
M18	2.50	26.67	27.00	26.15	30.14	29.56	11.28	11.72	11.15	11.85
M20	2.50	29.67	30.00	29.16	33.53	32.95	12.28	12.72	12.15	12.85
M22	2.50	31.61	32.00	31.00	35.72	35.03	13.78	14.22	13.65	14.35
M24	3.00	35.38	36.00	35.00	39.98	39.55	14.78	15.22	14.65	15.35
M27	3.00	-	41.00	40.00	-	45.20	-	-	16.65	17.35
M30	3.50	-	46.00	45.00	-	50.85	-	-	18.28	19.12
M33	3.50	-	50.00	49.00	-	55.37	-	-	20.58	21.42
M36	4.00	-	55.00	53.80	-	60.79	-	-	22.08	22.92
M39	4.00	-	60.00	58.80	-	66.44	-	-	24.58	25.42
M42	4.50	63.10	65.00	63.10	71.30	71.30	25.58	26.42	25.58	26.42
M45	4.50	68.10	70.00	68.10	76.95	76.95	27.58	28.42	27.58	28.42
M48	5.00	73.10	75.00	73.10	82.60	82.60	29.58	30.42	29.58	30.42
M52	5.00	78.10	80.00	78.10	88.25	88.25	32.50	33.50	32.50	33.50
Length Tolerance (l)	Grade A	2 Thru 3 mm: ± 0.20			4 Thru 6 mm: ± 0.24		7 Thru 10 mm: ± 0.29			
		12 Thru 18 mm: ± 0.35			20 Thru 30 mm: ± 0.42		35 Thru 50 mm: ± 0.50			
		55 Thru 80 mm: ± 0.60			85 Thru 120 mm: ± 0.70		130 Thru 180 mm: ± 0.80			
		190 Thru 200: ± 0.92			-		-			
	Grade B	22 Thru 50 mm: ± 1.25			55 Thru 80 mm: ± 1.50		85 Thru 120 mm: ± 1.75			
130 Thru 180 mm: ± 2.00			190 Thru 200 mm: ± 2.30		-					
Note:	As a general rule, screws are manufactured in the length sizes for which values of mass have been given.									
Typical Materials, Grades and Property Classes	Steel					8.8; 5.6; 10.9				
	Stainless Steel					A2-70; A4-70; A2-50; C3; C4				
	Non-ferrous Metal					As Agreed				
Typical Platings and Coatings	Black Oxide					Zinc				
	Zinc Yellow Dichromate									