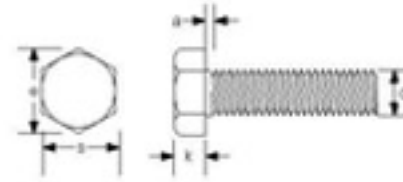


FULL THREAD HEXAGON HEAD SCREWS #933 - DIN & ISO DIMENSIONS

Ref: DIN 933 - 1987

This standard contains specifications for fully threaded hexagon head screws with coarse metric thread for diameters M 1.6 to M 52. Although long-term expectation is for DIN to be superseded by ISO (lower half of page), current MMCC product # 933 is supplied according to DIN dimensions below.

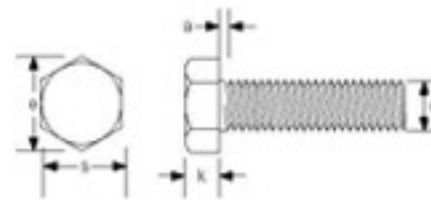


Dimensions in mm.

NOM. THREAD DIAMETER (d)	M 3	M 4	M 5	M 6	(M 7)	M 8	M 10	M 12	M 14	M 16	(M 18)	M 20	(M 22)	M 24	(M 27)	M 30	(M 33)	M 36	(M 39)	M 42	(M 45)	M 48	
THREAD PITCH (coarse)	0.5	0.7	0.8	1	1	1.25	1.5	1.75	2	2	2.5	2.5	2.5	3	3	3.5	3.5	4	4	4.5	4.5	5	
a	max	1.5	2.1	2.4	3	3	3.75	4.5	5.25	6	6	7.5	7.5	9	9	10.5	10.5	12	12	13.5	13.5	15	
washer face	min	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	
max	0.4	0.4	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1	1	1	1	
e	min	6.01	7.66	8.79	11.05	12.12	14.38	16.9	21.1	24.69	26.75	30.14	33.53	35.72	39.99	45.2	50.85	55.37	60.79	66.44	71.3	76.95	82.60
Nom. Dimensions	2	2.8	3.5	4	4.8	5.3	6.4	7.5	8.8	10	11.5	12.5	14	15	17	18.7	21	22.5	25	26	28	30	
k	min	1.89	2.69	3.35	3.95	4.65	5.15	6.22	7.32	8.62	9.82	11.28	12.28	13.78	14.78	16.65	18.28	20.58	22.08	24.58	25.58	27.58	29.58
max	2.12	2.92	3.65	4.15	4.95	5.45	6.56	7.68	8.98	10.18	11.72	12.72	14.22	15.22	17.35	19.12	21.42	22.92	25.43	26.42	28.42	30.42	
Max. = Nom. Dimensions	5.5	7	8	10	11	13	17	19	22	24	27	30	32	36	41	46	50	55	60	65	70	75	
s	min	5.32	6.78	7.78	9.78	10.73	12.73	16.73	18.67	21.67	23.67	26.67	29.67	31.61	35.38	40	45	49	53.8	58.8	63.1	68.1	73.1

Ref: ISO 4017-1979

This international standard gives specifications for fully threaded hexagon head screws with metric dimensions and thread diameters from 3 mm up to and including 36 mm.



Dimensions in mm

NOM. THREAD DIAMETER (d)	M 3	M 4	M 5	M 6	M 8	M 10	M 12	M 14	M 16	M 20	M 24	M 30	M 36
THREAD PITCH (coarse)	0.5	0.7	0.8	1	1.25	1.5	1.75	2	2	2.5	3	3.5	4
a	max	1.5	2.1	2.4	3	3.75	4.5	5.25	6	7.5	9	10.5	12
washer face	min	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.2	0.2	0.2	0.2	0.2
max	0.4	0.4	0.5	0.5	0.6	0.6	0.6	0.6	0.8	0.8	0.8	0.8	0.8
e	min	6.01	7.66	8.79	11.05	14.38	17.77	20.03	23.35	26.75	33.53	39.99	50.85
Nom. Dimensions	2	2.8	3.5	4	5.3	6.4	7.5	8.8	10	12.5	15	18.7	22.5
k	min	1.89	2.69	3.35	3.95	5.15	6.22	7.32	8.62	9.82	12.28	14.78	18.28
max	2.12	2.92	3.65	4.15	5.45	6.56	7.68	8.98	10.18	12.72	15.22	19.12	22.92
Max. = Nom. Dimensions	5.5	7	8	10	13	16	19	21	24	30	36	46	55
s	min	5.32	6.78	7.78	9.78	12.73	15.73	18.73	21.67	29.67	35.38	45	53.8



Comparison Chart on ISO/DIN standards across flat size differences

Thread Diameter	M 10		M 12		M 14	
	Max.	Min.	Max.	Min.	Max.	Min.
ISO mm	16	15.73	18	17.73	21	20.67
DIN mm	17	16.73	19	18.67	22	21.67

*Please note: Diameters shown in () should be avoided for new design.