

METRIC FASTENER SPECIFICATIONS



HEXAGON NUTS NO. 934

COARSE AND FINE THREAD
DIAMETER - PITCH COMBINATIONS

MECHANICAL PROPERTIES OF FASTENERS
CONFORMING TO ISO STANDARDS

DIMENSIONS

THREAD	mm	M 4	M 5	M 6	M 8	M 8 x 1	M 10	M 10 x 1,25	M 12	M 12 x 1
DIAMETER	Inch	.157	.197	.236	.315	.315	.394	.394	.472	.472
PITCH	mm	0,7	0,8	1	1,25	1	1,5	1,25	1,75	1
Threads / Inch		36 ¼	31 ¼	25 ½	20 ¼	25 ½	17	20 ¼	14 ½	20 ¼
ACROSS FLATS	mm	7	8	10	13	13	16,17	16,17	18,19	18,19

THREAD	mm	M 12 x 1,5	M 12 x 1,25	(M 14)	(M 14 x 1,5)	M 16	M 16 x 1,5	(M 18 x 1,5)	M 20	M 20 x 1,5
DIAMETER	Inch	.472	.472	.551	.551	.630	.630	.709	.787	.787
PITCH	mm	1,5	1,25	2	1,5	2	1,5	1,5	2,5	1,5
Threads / Inch		17	20 ¼	12 ¼	17	12 ¼	17	17	10 ¼	17
ACROSS FLATS	mm	18,19	18,19	21,22	21,22	24	24	27	30	30

THREAD	mm	M 20 x 2	(M 22)	M 24	M 24 x 2	(M 27)	(M 27 x 2)	M 30	(M 33)	M 36
DIAMETER	Inch	.787	.866	.945	.945	1.063	1.063	1.181	1.299	1.417
PITCH	mm	2	2,5	3	2	3	2	3,5	3,5	4
Threads / Inch		12 ¼	10 ¼	8 ½	12 ¼	8 ½	12 ¼	7 ¼	7 ¼	6 ¼
ACROSS FLATS	mm	30	32	36	36	41	41	46	50	55

(M) = Limited Availability

NOMINAL DIAMETER mm	PITCH mm	NOMINAL STRESS AREA mm²	PROPERTY CLASSES OF NUTS						
			4	5	6	8	9	10	12
			PROOF LOAD - N (Newton)						
M 3	0,5	5,03	—	2 600	3 000	4 000	4 500	5 200	5 800
M 4	0,7	8,78	—	4 550	5 250	7 000	7 900	9 150	10 100
M 5	0,8	14,2	—	8 250	9 500	11 500	13 000	14 800	16 300
M 6	1	20,1	—	11 700	13 500	16 300	18 400	20 900	23 100
M 7	1	28,9	—	16 800	19 400	23 400	26 400	30 100	33 200
M 8	1,25	36,6	—	21 600	24 900	30 400	34 400	38 100	42 500
M10	1,5	58	—	34 200	39 400	48 100	54 500	60 300	67 300
M12	1,75	84,3	—	51 400	59 000	70 800	80 100	88 500	100 300
M14	2	115	—	70 200	80 500	96 000	109 300	120 800	136 900
M16	2	157	—	95 800	109 900	131 900	149 200	164 900	186 800
M20	2,5	245	125 000	154 400	176 400	225 400	225 400	259 700	294 000
M24	3	353	180 000	222 400	254 200	324 800	324 800	374 200	423 600
M27	3	459	234 100	289 200	330 500	422 300	422 300	486 500	550 800
M30	3,5	561	286 100	353 400	403 900	516 100	516 100	594 700	673 200
M33	3,5	694	353 900	437 200	499 700	638 500	638 500	735 600	832 800
M36	4	817	416 700	514 700	588 200	751 600	751 600	866 000	980 400
M39	4	976	497 800	614 900	702 700	897 900	897 900	1 035 000	1 171 000

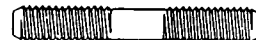
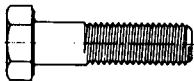


TABLE 1: BOLTS, SCREWS & STUDS (ISO 898/1 - 1978)

CLASS		4.6	4.8	5.6	5.8	6.8	8.8 (≤M16)	8.8 (>M16)	9.8	10.9	12.9
U.S. GRADE		1	2	2	2	3	5	5	5	8	—
Brinell	min.	114	124	147	152	181	219	242	266	295	353
	max.	209	209	209	209	238	285	319	342	363	412
Rockwell	HRB	min.	67	71	79	82	89	—	—	—	—
		max.	95	95	95	95	99	—	—	—	—
	HRC	min.	—	—	—	—	—	20	23	27	31
		max.	—	—	—	—	—	30	34	36	39
Nom. Yield Point N/mm²		240	320	300	400	480	640	640	720	900	1080
Tensile Strength N/mm²	min.	400	420	500	520	600	800	830	900	1040	1220
	nom.	400	400	500	500	600	800	800	900	1000	1200