

CARBON STEEL
METRIC HEX BOLTS

DIAMETER	PITCH (mm)	STRESS AREA (mm²)	MINIMUM ULTIMATE TENSILE LOAD (N)									
			CLASS 4.6	CLASS 4.8	CLASS 5.6	CLASS 5.8	CLASS 6.8	CLASS 8.8	CLASS 9.8	CLASS 10.9	CLASS 12.9	K0
M3	0.5	5.03	2010	2110	2510	2620	3020	4020	4530	5230	6140	-
M3.5	0.6	6.78	2710	2850	3390	3530	4070	5420	6100	7050	8270	-
M4	0.7	8.78	3510	3690	4390	4570	5270	7020	7900	9130	10700	-
M5	0.8	14.2	5680	5960	7100	7380	8520	11350	12800	14800	17300	-
M6	1	20.1	8040	8440	10000	10400	12100	16100	18100	20900	24500	-
M7	1	28.9	11600	12100	14400	15000	17300	23100	26000	30100	35300	-
M8	1.25	36.6	14600	15400	18300	19000	22000	29200	32900	38100	44600	-
M10	1.5	58	23200	24400	29000	30200	34800	46400	52200	60300	70800	-
M12	1.75	84.3	33700	35400	42200	43800	50600	67400	75900	87700	103000	70000
M14	2	115	46000	48300	57500	59800	69000	92000	104000	120000	140000	-
M16	2	157	62800	65900	78500	81600	94000	125000	141000	163000	192000	130000
M18	2.5	192	76800	80600	96000	99800	115000	159000	-	200000	234000	-
M20	2.5	245	98000	103000	122000	127000	147000	203000	-	255000	299000	203000
M22	2.5	303	121000	127000	152000	158000	182000	252000	-	315000	370000	-
M24	3	353	141000	148000	176000	184000	212000	293000	-	367000	431000	293000
M27	3	459	184000	193000	230000	239000	275000	381000	-	477000	560000	381000
M30	3.5	561	224000	236000	280000	292000	337000	466000	-	583000	684000	466000
M33	3.5	694	278000	292000	347000	361000	416000	576000	-	722000	847000	-
M36	4	817	327000	343000	408000	425000	490000	678000	-	850000	997000	678000
M39	4	966	390000	410000	488000	508000	586000	810000	-	1020000	1200000	-

Reference ISO 898.1:2013 and AS 1252.1:2016

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METRIC HEX BOLTS

DIAMETER	PITCH (mm)	STRESS AREA (mm²)	MINIMUM TENSILE STRENGTH (Mpa)									
			CLASS 4.6	CLASS 4.8	CLASS 5.6	CLASS 5.8	CLASS 6.8	CLASS 8.8	CLASS 9.8	CLASS 10.9	CLASS 12.9	K0
M3	0.5	5.03	400	420	500	520	600	800	900	1040	1220	-
M3.5	0.6	6.78	400	420	500	520	600	800	900	1040	1220	-
M4	0.7	8.78	400	420	500	520	600	800	900	1040	1220	-
M5	0.8	14.2	400	420	500	520	600	800	900	1040	1220	-
M6	1	20.1	400	420	500	520	600	800	900	1040	1220	-
M7	1	28.9	400	420	500	520	600	800	900	1040	1220	-
M8	1.25	36.6	400	420	500	520	600	800	900	1040	1220	-
M10	1.5	58	400	420	500	520	600	800	900	1040	1220	-
M12	1.75	84.3	400	420	500	520	600	800	900	1040	1220	800
M14	2	115	400	420	500	520	600	800	900	1040	1220	-
M16	2	157	400	420	500	520	600	800	900	1040	1220	800
M18	2.5	192	400	420	500	520	600	830	900	1040	1220	-
M20	2.5	245	400	420	500	520	600	830	900	1040	1220	830
M22	2.5	303	400	420	500	520	600	830	900	1040	1220	-
M24	3	353	400	420	500	520	600	830	900	1040	1220	830
M27	3	459	400	420	500	520	600	830	900	1040	1220	830
M30	3.5	561	400	420	500	520	600	830	900	1040	1220	830
M33	3.5	694	400	420	500	520	600	830	900	1040	1220	-
M36	4	817	400	420	500	520	600	830	900	1040	1220	830
M39	4	966	400	420	500	520	600	830	900	1040	1220	-

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METRIC HEX BOLTS

DIAMETER	PITCH (mm)	STRESS AREA (mm²)	MINIMUM PROOF LOAD (N)									
			CLASS 4.6	CLASS 4.8	CLASS 5.6	CLASS 5.8	CLASS 6.8	CLASS 8.8	CLASS 9.8	CLASS 10.9	CLASS 12.9	K0
M3	0.5	5.03	1130	1560	1410	1910	2210	2920	3270	4180	4880	-
M3.5	0.6	6.78	1530	2100	1900	2580	2980	3940	4410	5630	6580	-
M4	0.7	8.78	1980	2720	2460	3340	3860	5100	5710	7290	8520	-
M5	0.8	14.2	3200	4400	3980	5400	6250	8230	9230	11800	13800	-
M6	1	20.1	4520	6230	5630	7640	8840	11600	13100	16700	19500	-
M7	1	28.9	6500	8960	8090	11000	12700	16800	18800	24000	28000	-
M8	1.25	36.6	8240	11400	10200	13900	16100	21200	23800	30400	35500	-
M10	1.5	58	13000	18000	16200	22000	25500	33700	37700	48100	56300	-
M12	1.75	84.3	19000	26100	23600	32000	37100	48900	54800	70000	81800	50700
M14	2	115	25900	35600	32200	43700	50600	66700	74800	95500	112000	-
M16	2	157	35300	48700	44000	59700	69100	91000	102000	130000	152000	94500
M18	2.5	192	43200	59500	53800	73000	84500	115000	-	159000	186000	-
M20	2.5	245	55100	76000	68600	93100	108000	147000	-	203000	238000	147000
M22	2.5	303	68200	93900	84800	115000	133000	182000	-	252000	294000	-
M24	3	353	79400	109000	98800	134000	155000	212000	-	293000	342000	212000
M27	3	459	103000	142000	128000	174000	202000	275000	-	381000	445000	275000
M30	3.5	561	126000	174000	157000	213000	247000	337000	-	466000	544000	337000
M33	3.5	694	156000	215000	194000	264000	305000	416000	-	576000	673000	-
M36	4	817	184000	253000	229000	310000	359000	490000	-	678000	792000	490000
M39	4	966	220000	303000	273000	371000	429000	586000	-	810000	947000	-

Reference ISO 898.1:2013 and AS 1252.1:2016

CARBON STEEL

METRIC HEX BOLTS

DIAMETER	PITCH (mm)	STRESS AREA (mm²)	NOMINAL STRESS UNDER PROOF LOAD (MPa)									
			CLASS 4.6	CLASS 4.8	CLASS 5.6	CLASS 5.8	CLASS 6.8	CLASS 8.8	CLASS 9.8	CLASS 10.9	CLASS 12.9	K0
M3	0.5	5.03	225	310	280	380	440	580	650	830	970	-
M3.5	0.6	6.78	225	310	280	380	440	580	650	830	970	-
M4	0.7	8.78	225	310	280	380	440	580	650	830	970	-
M5	0.8	14.2	225	310	280	380	440	580	650	830	970	-
M6	1	20.1	225	310	280	380	440	580	650	830	970	-
M7	1	28.9	225	310	280	380	440	580	650	830	970	-
M8	1.25	36.6	225	310	280	380	440	580	650	830	970	-
M10	1.5	58	225	310	280	380	440	580	650	830	970	-
M12	1.75	84.3	225	310	280	380	440	580	650	830	970	600
M14	2	115	225	310	280	380	440	580	650	830	970	-
M16	2	157	225	310	280	380	440	580	650	830	970	600
M18	2.5	192	225	310	280	380	440	600	650	830	970	-
M20	2.5	245	225	310	280	380	440	600	650	830	970	600
M22	2.5	303	225	310	280	380	440	600	650	830	970	-
M24	3	353	225	310	280	380	440	600	650	830	970	600
M27	3	459	225	310	280	380	440	600	650	830	970	600
M30	3.5	561	225	310	280	380	440	600	650	830	970	600
M33	3.5	694	225	310	280	380	440	600	650	830	970	-
M36	4	817	225	310	280	380	440	600	650	830	970	600
M39	4	966	225	310	280	380	440	600	650	830	970	-

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