CARBON STEEL
METRIC HEX BOLTS

DIAMETER	PITCH (mm)	VICKERS (HV)																			
		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	
		MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX
M3	0.5	120	220	130	220	155	220	160	220	190	250	250	320	290	360	320	380	385	435	-	-
M3.5	0.6	120	220	130	220	155	220	160	220	190	250	250	320	290	360	320	380	385	435	-	-
M4	0.7	120	220	130	220	155	220	160	220	190	250	250	320	290	360	320	380	385	435	-	-
M5	0.8	120	220	130	220	155	220	160	220	190	250	250	320	290	360	320	380	385	435	-	-
M6	1	120	220	130	220	155	220	160	220	190	250	250	320	290	360	320	380	385	435	-	-
M7	1	120	220	130	220	155	220	160	220	190	250	250	320	290	360	320	380	385	435	-	-
M8	1.25	120	220	130	220	155	220	160	220	190	250	250	320	290	360	320	380	385	435	-	-
M10	1.5	120	220	130	220	155	220	160	220	190	250	250	320	290	360	320	380	385	435	-	-
M12	1.75	120	220	130	220	155	220	160	220	190	250	250	320	290	360	320	380	385	435	250	320
M14	2	120	220	130	220	155	220	160	220	190	250	250	320	290	360	320	380	385	435	-	-
M16	2	120	220	130	220	155	220	160	220	190	250	250	320	290	360	320	380	385	435	250	320
M18	2.5	120	220	130	220	155	220	160	220	190	250	255	335	-	-	320	380	385	435	-	-
M20	2.5	120	220	130	220	155	220	160	220	190	250	255	335	-	-	320	380	385	435	255	335
M22	2.5	120	220	130	220	155	220	160	220	190	250	255	335	-	-	320	380	385	435	-	-
M24	3	120	220	130	220	155	220	160	220	190	250	255	335	-	-	320	380	385	435	255	335
M27	3	120	220	130	220	155	220	160	220	190	250	255	335	-	-	320	380	385	435	255	335
M30	3.5	120	220	130	220	155	220	160	220	190	250	255	335	-	-	320	380	385	435	255	335
M33	3.5	120	220	130	220	155	220	160	220	190	250	255	335	-	-	320	380	385	435	-	-
M36	4	120	220	130	220	155	220	160	220	190	250	255	335	-	-	320	380	385	435	255	335
M39	4	120	220	130	220	155	220	160	220	190	250	255	335	-	-	320	380	385	435	-	-

Reference ISO 898.1:2013

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CARBON STEEL
METRIC HEX BOLTS

DIAMETER	PITCH (mm)	BRINELL (HBW)																			
		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	
		MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX
M3	0.5	114	209	124	209	147	209	152	209	181	238	245	316	286	355	316	375	380	429	-	-
M3.5	0.6	114	209	124	209	147	209	152	209	181	238	245	316	286	355	316	375	380	429	-	-
M4	0.7	114	209	124	209	147	209	152	209	181	238	245	316	286	355	316	375	380	429	-	-
M5	0.8	114	209	124	209	147	209	152	209	181	238	245	316	286	355	316	375	380	429	-	-
M6	1	114	209	124	209	147	209	152	209	181	238	245	316	286	355	316	375	380	429	-	-
M7	1	114	209	124	209	147	209	152	209	181	238	245	316	286	355	316	375	380	429	-	-
M8	1.25	114	209	124	209	147	209	152	209	181	238	245	316	286	355	316	375	380	429	-	-
M10	1.5	114	209	124	209	147	209	152	209	181	238	245	316	286	355	316	375	380	429	-	-
M12	1.75	114	209	124	209	147	209	152	209	181	238	245	316	286	355	316	375	380	429	245	316
M14	2	114	209	124	209	147	209	152	209	181	238	245	316	286	355	316	375	380	429	-	-
M16	2	114	209	124	209	147	209	152	209	181	238	245	316	286	355	316	375	380	429	250	320
M18	2.5	114	209	124	209	147	209	152	209	181	238	250	331	-	-	316	375	380	429	-	-
M20	2.5	114	209	124	209	147	209	152	209	181	238	250	331	-	-	316	375	380	429	245	316
M22	2.5	114	209	124	209	147	209	152	209	181	238	250	331	-	-	316	375	380	429	-	-
M24	3	114	209	124	209	147	209	152	209	181	238	250	331	-	-	316	375	380	429	250	331
M27	3	114	209	124	209	147	209	152	209	181	238	250	331	-	-	316	375	380	429	250	331
M30	3.5	114	209	124	209	147	209	152	209	181	238	250	331	-	-	316	375	380	429	250	331
M33	3.5	114	209	124	209	147	209	152	209	181	238	250	331	-	-	316	375	380	429	-	-
M36	4	114	209	124	209	147	209	152	209	181	238	250	331	-	-	316	375	380	429	250	331
M39	4	114	209	124	209	147	209	152	209	181	238	250	331	-	-	316	375	380	429	-	-

Reference ISO 898.1:2013

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CARBON STEEL
METRIC HEX BOLTS

DIAMETER	PITCH (mm)	ROCKWELL (HRB)										ROCKWELL (HRC)									
		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	
		MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX
M3	0.5	67	95	71	95	79	95	82	95	89	99.5	22	32	28	37	32	39	39	44	-	-
M3.5	0.6	67	95	71	95	79	95	82	95	89	99.5	22	32	28	37	32	39	39	44	-	-
M4	0.7	67	95	71	95	79	95	82	95	89	99.5	22	32	28	37	32	39	39	44	-	-
M5	0.8	67	95	71	95	79	95	82	95	89	99.5	22	32	28	37	32	39	39	44	-	-
M6	1	67	95	71	95	79	95	82	95	89	99.5	22	32	28	37	32	39	39	44	-	-
M7	1	67	95	71	95	79	95	82	95	89	99.5	22	32	28	37	32	39	39	44	-	-
M8	1.25	67	95	71	95	79	95	82	95	89	99.5	22	32	28	37	32	39	39	44	-	-
M10	1.5	67	95	71	95	79	95	82	95	89	99.5	22	32	28	37	32	39	39	44	-	-
M12	1.75	67	95	71	95	79	95	82	95	89	99.5	22	32	28	37	32	39	39	44	22	32
M14	2	67	95	71	95	79	95	82	95	89	99.5	22	32	28	37	32	39	39	44	-	-
M16	2	67	95	71	95	79	95	82	95	89	99.5	22	32	28	37	32	39	39	44	22	32
M18	2.5	67	95	71	95	79	95	82	95	89	99.5	23	34	-	-	32	39	39	44	-	-
M20	2.5	67	95	71	95	79	95	82	95	89	99.5	23	34	-	-	32	39	39	44	23	34
M22	2.5	67	95	71	95	79	95	82	95	89	99.5	23	34	-	-	32	39	39	44	-	-
M24	3	67	95	71	95	79	95	82	95	89	99.5	23	34	-	-	32	39	39	44	23	34
M27	3	67	95	71	95	79	95	82	95	89	99.5	23	34	-	-	32	39	39	44	23	34
M30	3.5	67	95	71	95	79	95	82	95	89	99.5	23	34	-	-	32	39	39	44	23	34
M33	3.5	67	95	71	95	79	95	82	95	89	99.5	23	34	-	-	32	39	39	44	-	-
M36	4	67	95	71	95	79	95	82	95	89	99.5	23	34	-	-	32	39	39	44	23	34
M39	4	67	95	71	95	79	95	82	95	89	99.5	23	34	-	-	32	39	39	44	-	-

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