

鋼製のボルト・小ねじの機械的性質 (JIS B 1051-1991 抜粋)

付表3 おねじ部品の最小引張荷重(メートル細目ねじの場合)

ねじの呼び mm	有効断面積 As mm ²	おねじ部品の強度区分									
		3.6	4.6	4.8	5.6	5.8	6.8	8.8	9.8	10.9	12.9
最小引張荷重 N(kgf)											
M 8 × 1	39.2	12900 {1320}	15700 {1600}	16500 {1680}	19600 {2000}	20400 {2080}	23500 {2400}	31360 {3200}	35300 {3600}	40800 {4160}	47800 {4870}
M10 × 1	64.5	21300 {2170}	25800 {2630}	27100 {2760}	32300 {3290}	33500 {3420}	38700 {3950}	51600 {5260}	58100 {5930}	67100 {6840}	78700 {8030}
M10 × 1.25	61.2	20200 {2060}	24500 {2500}	25700 {2620}	30600 {3120}	31800 {3240}	36700 {3740}	49000 {5000}	55100 {5620}	63600 {6490}	74700 {7620}
M12 × 1.25	92.1	30400 {3100}	36800 {3750}	38700 {3950}	46000 {4690}	47900 {4880}	55300 {5640}	73700 {7520}	82900 {8450}	95800 {9770}	112000 {11400}
M12 × 1.5	88.1	29100 {2970}	35200 {3590}	37000 {3770}	44100 {4500}	45800 {4670}	52900 {5390}	70500 {7190}	79300 {8090}	91500 {9330}	107500 {10960}
M14 × 1.5	125	41200 {4200}	50000 {5100}	52500 {5350}	62500 {6370}	65000 {6630}	75000 {7650}	100000 {10200}	112000 {11400}	130000 {13300}	152000 {15500}
M16 × 1.5	167	55100 {5620}	66800 {6810}	70100 {7150}	83500 {8510}	86800 {8850}	100000 {10200}	134000 {13700}	150000 {15300}	174000 {17700}	204000 {20800}
M18 × 1.5	216	71300 {7270}	86400 {8810}	90700 {9250}	108000 {11000}	112000 {11400}	130000 {13300}	179000 {18300}	—	225000 {22900}	264000 {26900}
M20 × 1.5	272	89800 {9160}	109000 {11100}	114000 {11600}	136000 {13900}	141000 {14400}	163000 {16600}	226000 {23000}	—	283000 {28900}	332000 {33900}
M22 × 1.5	333	110000 {11200}	133000 {13600}	140000 {14300}	166000 {16900}	173000 {17600}	200000 {20400}	276000 {28100}	—	346000 {35300}	406000 {41400}
M24 × 2	384	127000 {13000}	154000 {15700}	161000 {16400}	192000 {19600}	200000 {20400}	230000 {23500}	319000 {32500}	—	399000 {40700}	469000 {47800}
M27 × 2	496	164000 {16700}	198000 {20200}	208000 {21200}	248000 {25300}	258000 {26300}	298000 {30400}	412000 {42000}	—	516000 {52600}	605000 {61700}
M30 × 2	621	205000 {20900}	248000 {25300}	261000 {26600}	310000 {31600}	323000 {32900}	373000 {38000}	515000 {52500}	—	646000 {65900}	758000 {77300}
M33 × 2	761	251000 {25600}	304000 {31000}	320000 {32600}	380000 {38700}	396000 {40400}	457000 {46600}	632000 {64400}	—	791000 {80700}	928000 {94600}
M36 × 3	865	285000 {29100}	346000 {35300}	363000 {37000}	432000 {44100}	450000 {45900}	519000 {52900}	718000 {73200}	—	900000 {91600}	1050000 {107000}
M39 × 3	1030	340000 {34700}	412000 {42000}	433000 {44200}	515000 {52500}	536000 {54700}	618000 {63000}	855000 {87200}	—	1070000 {109000}	1260000 {128000}

〈備考〉 表中の網かけ () したねじの呼びに対する最小引張荷重は、ISO 898-1:1988の規定にないものである。