Low heads streamline design. Use them in materials too thin to countersink; also for non-critical loading requiring heat treated screws

Equivalent Standard

ASME B18.3, BS 2470

Mechanical Properties

Material: Unbrako High Grade Alloy Steel
Thread Class: 3A
Max working temperature: -50°C to +300°C
Heat Treatment: Rc 39-44
Shear Strength: 96,000 lbf/in2
Min. Elongation: 9%

Length Tolerance

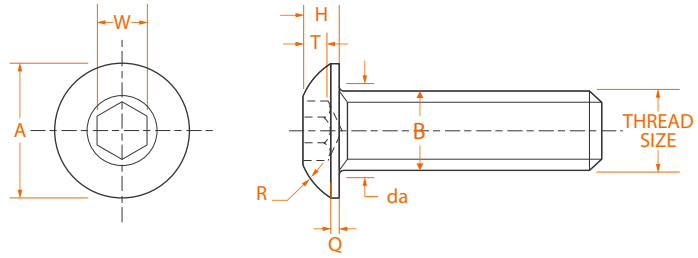
Diameter	to 1″ Incl.	over 1″ to 2″ Incl.
To 1″ incl.	–.03	–.04
Over 1″ to 2″	–.03	–.06

Maximum Tightening Torques

Thread size nom.	Unplated UNF	Unplated UNC	Plated UNF	Plated UNC
	Maximum Tightening Torques (lbf. in.)			
#4	8.9	10	6.6	7.5
#5	13.0	14	9.7	10.0
#6	16.0	19	12.0	14.0
#8	30.0	32	22.0	24.0
#10	44.0	51	33.0	38.0
1/4	100.0	120	75.0	90.0
5/16	210.0	240	157.0	180.0
	Maximum Tightening Torques (lbf. ft.)			
3/8	380.0	430	285.0	322.0
7/16	600.0	680	450.0	510.0
1/2	930.0	1050	697.0	787.0
5/8	1800.0	2000	1350.0	1500.0
3/4	3200.0	3560	2400.0	2670.0

Head Marking

Head markings may vary slightly depending on manufacturing practice. UNBRAKO and UNB are recognized identifications for #10 diameter & larger.



Product Dimensions

Thread size nom.	Threads per Inch UNC	Threads per Inch UNF	Head Diameter A max	Head Diameter A min	Hex Socket Size W min.	Head Height H max	Head Height H min	Socket Depth T min
#0	–	80	.114	.104	.035	.032	.026	.020
#1	64	72	.139	.129	.050	.039	.033	.028
#2	56	64	.164	.154	.050	.046	.038	.028
#3	48	56	.188	.176	.0625	.052	.044	.035
#4	40	48	.213	.201	.0625	.059	.051	.035
#5	40	44	.238	.226	.0781	.066	.058	.044
#6	32	40	.262	.250	.0781	.073	.063	.044
#8	32	36	.312	.298	.0937	.087	.077	.052
#10	24	32	.361	.347	.1250	.101	.091	.070
1/4	20	28	.437	.419	.1562	.132	.122	.087
5/16	18	24	.547	.527	.1875	.166	.152	.105
3/8	16	24	.656	.636	.2187	.199	.185	.122
7/16	14	20	.750	.730	.2500	.232	.212	.138
1/2	13	20	.875	.851	.3125	.265	.245	.175
5/8	11	18	1.000	.970	.3750	.331	.311	.210
3/4	10	16	1.218	1.198	.5000	.398	.378	.272

Thread size nom.	thd. to hd max ref	Body Dia B max	Body Dia B min	Transition Dia. Q max	Transition Dia. da max	R ref	Tensile Load lbs. UNC	Tensile Load lbs. UNF
#0	.500	.060	.0568	.010	.080	.070		
#1	.500	.073	.0695	.010	.093	.080		
#2	.500	.086	.0822	.010	.106	.099		
#3	.500	.099	.0949	.010	.119	.110		
#4	.500	.112	.1075	.015	.132	.135	960	1,040
#5	.500	.125	.1202	.015	.145	.141	1,260	1,310
#6	.625	.138	.1329	.015	.158	.158	1,440	1,620
#8	.750	.164	.1585	.015	.194	.185	2,220	2,240
#10	1.000	.190	.1840	.020	.220	.213	2,780	3,180
1/4	1.000	.250	.2435	.031	.290	.249	5,070	5,790
5/16	1.000	.3125	. 3053	.031	.353	.309	8,350	9,250
3/8	1.250	.375	.3678	.031	.415	.368	12,400	14,000
7/16	1.500	.437	.4294	0.31	.478	.417	16,900	18,900
1/2	2.000	.500	.4919	.046	.560	.481	22,800	25,600
5/8	2.000	.625	.6163	.062	.685	.523	36,000	40,800
3/4	2.000	.750	.7406	0.78	.810	.670	53,200	59,300

N.B. Because of their head configurations, Button head screw tensile loads, are based on 160,000 lbf/in2.