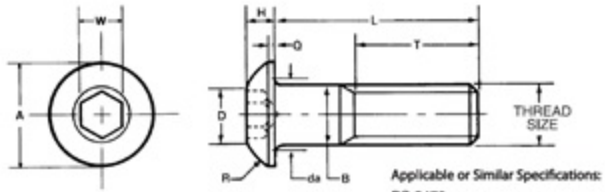
UNF SOCKET SCREWS - UNC AND UNF THREADS



Applicable or Similar Specifications:
BS 2470
ANSI B 18.3

Thread Size	Threads Per Inch		A	B	da	D	H	L (See	Q	R	T Min (See	W	Max Tightening Torques lbf.In.					
													Unplated		Plated			
	UNC	UNF	Max.	Max.	Max.	Max.	Max.	Note 1)	Max.	Ref.	Note1)	Nom.	UNC	UNF		UNC	UNC	UNF
N°. 4	40	48	.213	.1120	.1320	.102	0.59	.500	.015	.140	.500	1/16	8.9	10	6.6	7.5	960	1040
N°. 5	40	44	.238	.1250	.1450	.131	.066	.500	.015	.146	.500	5/64	13.0	14	9.7	10.0	1260	1310
N°. 6	32	40	.262	.1380	.1580	.131	.073	.625	.015	.163	.625	5/64	16.0	19	12.0	14.0	1440	1620
N°.8	32	36	.312	.1640	.1940	.149	.087	.750	.015	.190	.750	3/32	30.0	32	22.0	24.0	2220	2240
N°.10	24	32	.361	.1900	.2200	.186	.101	1.000	.020	.218	1.000	1/8	44.0	51	33.0	38.0	2780	3180
1/4	20	28	.437	.2500	.2900	.232	.132	1.000	.031	.254	1.000	5/32	100.0	120	75.0	90.0	5070	5790
5/16	18	24	.547	.3125	.3520	.268	.166	1.000	.031	.314	1.000	3/16	210.0	240	157.0	180.0	8350	9250
													lbf.ft					
3/8	16	24	.656	.3750	.4150	.304	.199	1.250	.031	.373	1.000	7/32	380	430	285	322	12400	14000
7/16	14	20	.750	.4375	.4780	.340	.232	1.500	.031	.417	1.500	1/4	600	680	450	510	16900	18900
1/2	13	20	.875	.5000	.5600	.414	.265	2.000	.046	.486	2.000	5/16	930	1050	697	787	22800	25600
5/8	11	18	1.000	.6250	.6850	.486	.331	2.000	.062	.528	2.000	3/8	1800	2000	1350	1500	36000	40800
3/4	10	16	1.218	.7500	.8100	.613	.398	2.000	.078	.670	2.000	1/2	3200	3560	2400	2670	53200	59300

ALL DIMENSIONS IN INCHES

Length 'L' Tolerances		
Screws Over	Up to and including	Tolerance
-	1"	±0.16"
1"	2"	+0.031" -0.016"
2"	6"	±0.031"
6"	-	±0.062"

MECHANICAL PROPERTIES

Material	High Grade Alloy Steel
Heat Treatment	Rc 39-44
Shear Strength	96,000 lbf/in²
Min. Elongation	9%

NOTES:

1. **Thread Length** - Screw lengths equal to or shorter than listed in column 'L' will be threaded to head. For screw lengths longer than 'L', 'T' designates the minimum thread length. The maximum thread length is not specified.
2. **Thread Class: 3A**
3. **da** - Transition diameter.
4. **Max. Working Temperature:** -50°C +300°C
5. Torques calculated in accordance with VDI 2230 "Systematic calculation of high duty bolted joints" with σ 0.2 = 100 K.S.I. and μ = 0.125 for plain finish and μ = 0.094 for plated.

Button head screws are ideally suited for use in materials too thin to countersink and in non-critical loading applications. Their low head profile gives them smooth, aesthetic appearance, and their deep accurate sockets ensure non-slip wrench engagement to prevent marring of the surface in which they are installed.

Button head screws are made from high grade alloy steel and every manufacturing operation is closely controlled. Heads are forged for greater strength and full formed radius-root rolled threads assure close tolerances, maximum strength and superior fatigue resistance. Deep accurate sockets allow full tightening, and customised heat treatment of each heat of steel ensures maximum strength and hardness without brittleness.

Button head screws are available in plain or plated finishes. Stainless steel screws are also available.

Flange button head screws in Metric are also available.