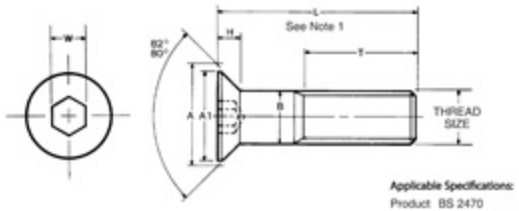
COUNTERSUNK SOCKET HEAD SCREWS - UNC and UNF Threads



Thread size	Threads Per Inch		A Max. (See note 2)	B Max. (See note 3)	B Max.	H Ref.	W Nom.	Max Tightening Torques lbf.In.				Tensile Loads lb.f.	
								UNPLATED		PLATED			
	UNC	UNF						UNC	UNF	UNC	UNF	UNC	UNF
No. 4	40	48	.225	.218	.1120	.083	1/16	8.9	10.0	6.6	7.5	960	1040
No. 5	40	44	.281	.240	.1250	.090	5/64	13.0	14.0	9.0	10.0	1260	1310
No. 6	32	40	.307	.263	.1380	.097	5/64	16.0	19.0	12.0	14.0	1440	1620
No. 8	32	36	.359	.311	.1640	.112	3/32	30.0	32.0	22.0	24.0	2220	2240
No. 10	24	32	.411	.359	.1900	.127	1/8	44.0	51.0	33.0	38.0	2780	3180
1/4	20	28	.531	.480	.2500	.161	5/32	100.0	120.0	75.0	90.0	5070	5790
5/16	18	24	.656	.600	.3125	.198	3/16	210.0	240.0	157.0	180.0	8350	9250
3/8	16	24	.781	.720	.3750	.234	7/32	380.0	430.0	285.0	322.0	12400	14000
7/16	14	20	.844	.781	.4375	.234	1/4	600.0	680.0	450.0	510.0	16900	18900
1/2	13	20	.938	.872	.5000	.251	5/16	930.0	1050.0	697.0	787.0	22800	25600
5/8	11	18	1.188	1.112	.6250	.324	3/8	1800.0	2000.0	1350.0	1500.0	36000	40800
3/4	10	16	1.438	1.355	.7500	.396	1/2	3200.0	3560.0	2400.0	2670.0	53200	59300

ALL DIMENSIONS IN INCHES.

MECHANICAL PROPERTIES

Material	High Grade Alloy Steel
Heat Treatment	Rc 39-43
Shear Strength	96,000 lbf/in²
Min. Elongation	**9%**

NOTES:

1. For overall and thread lengths see page 26.
2. A - Maximum theoretical sharp corner.
3. A1 - Absolute minimum head diameter.
4. da - Transition diameter.
5. **Thread Class:** 3A
6. **Working Temperature:** -50°C +300°C
7. 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.

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