



Suitable for use in parts too thin for standard Socket Head Cap Screw and for applications with limited clearance.

Equivalent Standards

ASME B18.3

Mechanical Properties

Hardness	RC 38-43
Tensile Stress	170,000 psi min.
Yield Strength	150,000 psi min.

Length 'L' Tolerance (in)

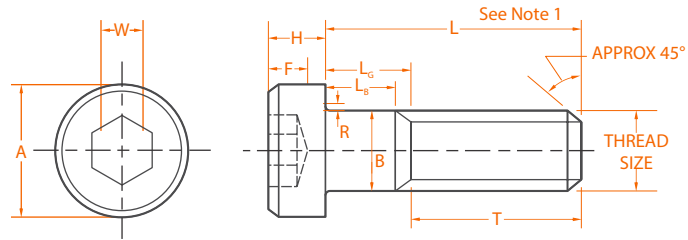
Screw Over	upto & incl	Tolerance
-	1	-.030
1	2 1/2	-.040
2 1/2	-	-.060

Tensile and Shear Strength

Thread size nom.	Tensile Strength - lbs. min.		Shear strength in threads (calculated lbs.)	
	UNRC	UNRF	UNRC	UNRF
#8	2,380	2,500	1,450	1,570
#10	2,980	3,400	1,700	2,140
1/4	5,410	6,180	3,090	3,900
5/16	8,910	9,870	4,930	6,210
3/8	13,200	14,900	7,450	9,400
1/2	24,100	27,200	13,600	17,100

NOTES:

1. Body and Grip lengths are same as UNC/UNF Socket Head Cap Screws. (see pageno. 24)
2. Thread Class: 3A UNRC and UNRF



Product Dimensions

Thread size nom.	Thread per Inch		Body Diameter B max	Head Diameter A		Hex Socket Size W nom.	Head Height H		Fillet Extension R	
	UNRC	UNRF		max	min		max	min	max	min
#8	32	36	0.1640	.270	.265	.0781	.085	.079	.012	.007
#10	24	32	0.1900	.312	.307	.0938	.098	.092	.014	.009
1/4	20	28	0.2500	.375	.369	.1250	.127	.121	.014	.009
5/16	18	24	0.3125	.437	.431	.1562	.158	.152	.017	.012
3/8	16	24	0.3750	.562	.556	.1875	.192	.182	.020	.015
1/2	13	20	0.5000	.750	.743	.2500	.254	.244	.026	.020

Thread size nom.	Socket Depth F min.	Thread Length T ref.	Recommended seating torque in-lbs.
#8	.060	.875	25
#10	.072	.875	35
1/4	.094	1.000	80
5/16	.110	1.125	157
3/8	.115	1.250	278
1/2	.151	1.500	667

Head Marking



Head markings may vary slightly depending on manufacturing practice. UNBRAKO and UNB are recognized identifications for 1/4" diameter & larger.