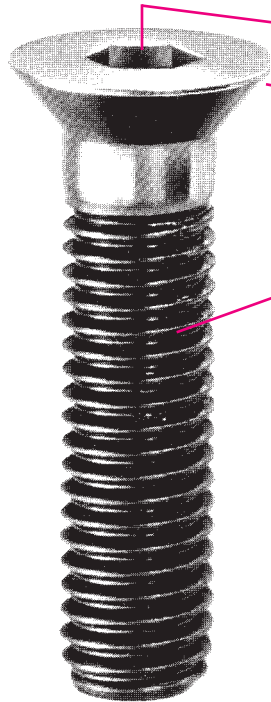


# FLAT HEAD SOCKET SCREWS

## Dimensions



Deep, accurate socket for maximum key engagement

Uniform 82° angle under head for maximum contact

Fully formed threads for greater strength and precision fit

Continuous grain flow throughout the screw for increased strength

Heat treated alloy steel for maximum strength without brittleness or decarburization

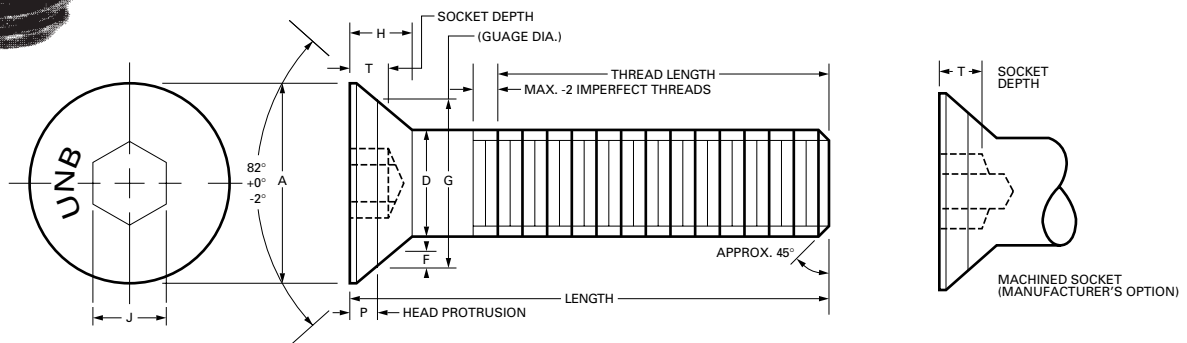
See page 16 for mechanical properties and applications.

### LENGTH TOLERANCE

Diameter	to 1"	over 1" to 2 1/2"	over 2 1/2" to 6"
#0 to 3/8" incl.	-.03	-.04	-.06
7/16 to 3/4" incl.	-.03	-.06	-.08
7/8 to 1" incl.	-.05	-.10	-.14

Dimensions: ANSI/ASME B18.3

Thread Class: 3A



### DIMENSIONS and APPLICATION DATA

nom. size	basic screw dia.	threads per inch		A head diameter		D body diameter		T	G protrusion gage diameter		H max. ref.	*** thd-to-hd max. ref.	P protrusion		F max.	J nom.
		UNRC	UNRF	max.*	min.**	max.	min.		max.	min.			max.	min.		
#0	.060	-	80	.138	.117	.060	.0568	.025	.078	.077	.044	.500	.034	.029	.006	.035
#1	.073	64	72	.168	.143	.073	.0695	.031	.101	.100	.054	.750	.038	.032	.008	.050
#2	.086	56	64	.197	.168	.086	.0822	.038	.124	.123	.064	.750	.042	.034	.010	.050
#3	.099	48	56	.226	.193	.099	.0949	.044	.148	.147	.073	.750	.044	.035	.010	.0625
#4	.112	40	48	.255	.218	.112	.1075	.055	.172	.171	.083	.875	.047	.037	.012	.0625
#5	.125	40	44	.281	.240	.125	.1202	.061	.196	.195	.090	.875	.048	.037	.014	.0781
#6	.138	32	40	.307	.263	.138	.1329	.066	.220	.219	.097	.875	.049	.037	.015	.0781
#8	.164	32	36	.359	.311	.164	.1585	.076	.267	.266	.112	1.000	.051	.039	.015	.0937
#10	.190	24	32	.411	.359	.190	.1840	.087	.313	.312	.127	1.250	.054	.041	.015	.1250
1/4	.250	20	28	.531	.480	.250	.2435	.111	.424	.423	.161	1.250	.059	.046	.015	.1562
5/16	.312	18	24	.656	.600	.3125	.3053	.135	.539	.538	.198	1.500	.063	.050	.015	.1875
3/8	.375	16	24	.781	.720	.375	.3678	.159	.653	.652	.234	1.750	.069	.056	.015	.2187
7/16	.437	14	20	.844	.781	.4375	.4294	.159	.690	.689	.234	2.000	.084	.071	.015	.2500
1/2	.500	13	20	.937	.872	.500	.4919	.172	.739	.738	.251	2.250	.110	.096	.015	.3125
5/8	.625	11	18	1.188	1.112	.625	.6163	.220	.962	.961	.324	2.500	.123	.108	.015	.3750
3/4	.750	10	16	1.438	1.355	.750	.7406	.220	1.186	1.185	.396	3.000	.136	.121	.015	.5000
7/8	.875	9	14	1.688	1.605	.875	.8647	.248	1.411	1.410	.468	3.250	.149	.134	.015	.5625
1	1.000	8	12	1.938	1.855	1.000	.9886	.297	1.635	1.634	.540	3.750	.162	.146	.015	.6250

\* maximum – to theoretical sharp corners

\*\* minimum – absolute with A flat

\*\*\* maximum product length, thread to head

**NOTE:** Performance data listed are for standard production items only. Non-stock items may vary due to variables in methods of manufacture. It is suggested that the user verify performance on any non-standard parts for critical application.