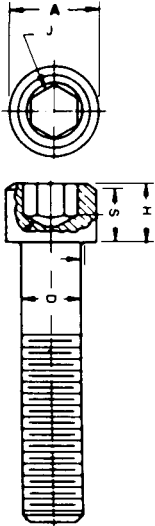


## 1960 SERIES SOCKET HEAD CAP SCREWS SUGGESTED TIGHTENING TORQUES



Nominal Size or Basic Screw Diameter	D		A		H		S	J	TIGHTENING TORQUE		
	Body Diameter		Head Diameter		Head Height		Head Side Height	Hexagon Socket Size			
	Max.	Min.	Max.	Min.	Max.	Min.	Min.	Nom.	UNRC	UNRF	
0	0.0600	0.0600	0.0568	0.096	0.091	0.060	0.057	0.054	0.050	—	2.6 (in-lb)
1	0.0730	0.0730	0.0695	0.118	0.112	0.073	0.070	0.066	1/16 0.062	4.5	4.8
2	0.0860	0.0860	0.0822	0.140	0.134	0.086	0.083	0.077	5/64 0.078	7.5	8
3	0.0990	0.0990	0.0949	0.161	0.154	0.099	0.095	0.089	3/64 0.078	11	12
4	0.1120	0.1120	0.1075	0.183	0.176	0.112	0.108	0.101	1/32 0.094	16	18
5	0.1250	0.1250	0.1202	0.205	0.198	0.125	0.121	0.112	3/32 0.094	24	24
6	0.1380	0.1380	0.1329	0.226	0.218	0.138	0.134	0.124	7/64 0.109	30	34
8	0.1640	0.1640	0.1585	0.270	0.262	0.164	0.159	0.148	3/64 0.141	55	58
10	0.1900	0.1900	0.1840	0.312	0.303	0.190	0.185	0.171	1/32 0.156	79	90
1/4	0.2500	0.2500	0.2435	0.375	0.365	0.250	0.244	0.225	3/16 0.188	17	19 (ft-lb)
5/16	0.3125	0.3125	0.3053	0.469	0.457	0.312	0.306	0.281	1/4 0.250	35	38
3/8	0.3750	0.3750	0.3678	0.562	0.550	0.375	0.368	0.337	5/16 0.312	62	70
7/16	0.4375	0.4375	0.4294	0.656	0.642	0.438	0.430	0.394	3/8 0.375	100	109
1/2	0.5000	0.5000	0.4919	0.750	0.735	0.500	0.492	0.450	7/8 0.375	150	172
5/8	0.6250	0.6250	0.6163	0.938	0.921	0.625	0.616	0.562	1/2 0.500	283	317
3/4	0.7500	0.7500	0.7406	1.125	1.107	0.750	0.740	0.675	5/8 0.625	500	562
7/8	0.8750	0.8750	0.8647	1.312	1.293	0.875	0.864	0.787	3/4 0.750	688	767
1	1.0000	1.0000	0.9886	1.500	1.479	1.000	0.988	0.900	3/4 0.750	1040	1080
1 1/4	1.2500	1.2500	1.2336	1.875	1.852	1.250	1.236	1.125	7/8 0.875	2080	2310
1 1/2	1.5000	1.5000	1.4818	2.250	2.224	1.500	1.485	1.350	1 1.000	3625	4080

Tensile Strength { 0 thru 1/2..... 180,000 psi min  
5/8-above..... 170,000 psi min

### MATERIAL

(A) ALLOY STEEL CONFORMING IN ALL RESPECTS TO ASTM A 574. HEAT TREATED TO ROCKWELL "C" 39-45 FOR .500 IN. AND SMALLER, AND 37-45 FOR .625 IN. AND LARGER  
(B) CORROSION-RESISTANT SHALL CONFORM IN ALL RESPECTS TO ASTM F837.

## SUGGESTED TIGHTENING TORQUES FOR OTHER ALLOY SOCKET SCREW PRODUCTS

Nominal Size	Basic Screw Size	Button Head Flat Head Hex Key Size	Button Head* Max. Tightening Torque	Flat Head Max. Tightening Torque	Low Head		Shoulder Screws	
					Hex Key Size	Max. Tightening Torque	Hex Key Size	Max. Tightening Torque
4	.1120	1/16	7.5	9.5	.050	5.0	...	...
5	.1250	5/64	12.5	19.0	.062	9.5	...	...
6	.1380	5/64	12.5	19.0	.062	9.5	...	...
8	.1640	3/32	23.0	30.0	5/64	19.4	...	...
10	.1900	1/8	45.0	65.0	3/32	33.5	...	...
1/4	.2500	5/32	105.0	140.0	1/8	77.9	1/8	50
5/16	.3125	3/16	190.0	245.0	5/32	156.0	5/32	125
3/8	.3750	7/32	300.0	390.0	3/16	273.0	3/16	265
7/16	.4375	1/4	...	580.0	7/32	428.0	...	...
1/2	.5000	5/16	1125.0	1170.0	1/4	615.0	1/4	470
5/8	.6250	3/8	1875.0	2000.0	5/16	1315.0	5/16	1,150
3/4	.7500	1/2	...	2300.0	...	...	3/8	2,000
1	...	...	...	...	...	...	1/2	4,000

SCREW DIAMETER	SOC. SET SCREW UNC-UNF
#0	1.0
#1	1.5
#2	1.5
#3	4.5
#4	4.5
#5	9.0
#6	10
#8	20
#10	35
1/4	80
5/16	160
3/8	275
7/16	400
1/2	600
5/8	1200
3/4	2000
7/8	5000
1	6500

### SOCKET SET SCREWS



MIN. YIELD POINT (P.S.I.)      HARDNESS SCALE  
190,000      48-51 RC  
180,000      45-48 RC



### SOCKET PIPE PLUGS

SOC. PIPE PLUG NPT
1/16-150
1/8-250
1/4-600
3/8-1200
1/2-1800
3/4-3000
1-4200
1 1/4-5400

### PULL-OUT DOWEL PINS STANDARD .0002 HEAT TREATED ALLOY STEEL



nom. size	thread size	recommended hole dia.	
		max.	min.
1/4"	#8-32 UNC-2B	2500	.2495
5/16"	#10-32 UNF-2B	.3125	.3120
3/8"	#10-32 UNF-2B	.3750	.3745
7/16"	#10-32 UNF-2B	.4375	.4370
1/2"	1/4-20 UNC-2B	5000	.4995
5/8"	1/4-20 UNC-2B	6250	6245
3/4"	5/16-18 UNC-2B	.7500	.7495
7/8"	3/8-16 UNC-2B	.8750	.8745
1	3/8-16 UNC-2B	1.0000	.9995