

# SOCKET CAP, SHOULDER, SET SCREWS, HEX, AND SPLINE KEYS

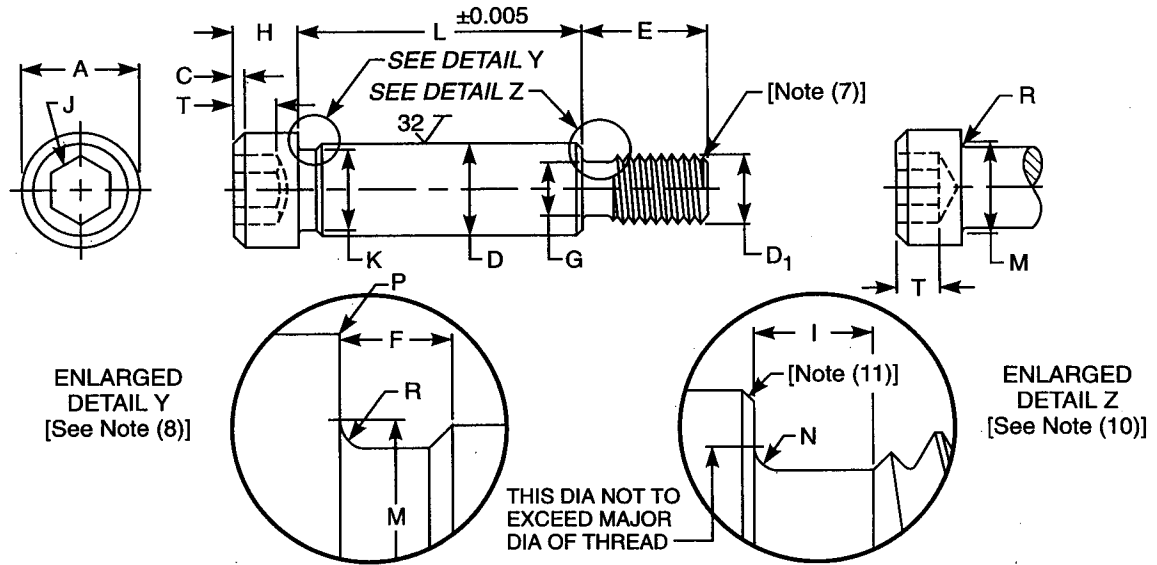


Table 4 Dimensions of Hexagon Socket Head Shoulder Screws

Nominal Size or Basic Shoulder Diameter	D		A		H		C	J		T	M	R	
	Shoulder Diameter		Head Diameter		Head Height		Chamfer or Radius	Hexagon Socket Size		Key Engagement	Fillet Transition Diameter	Head Fillet Radius	
	Max	Min	Max	Min	Max	Min	Max	Nom	Min	Max	Min		
1/4	0.250	0.2480	0.2460	0.375	0.357	0.188	0.177	0.020	1/8	0.125	0.094	0.276	0.009
5/16	0.312	0.3105	0.3085	0.438	0.419	0.219	0.209	0.026	5/32	0.156	0.117	0.345	0.012
3/8	0.375	0.3730	0.3710	0.562	0.543	0.250	0.240	0.031	3/16	0.188	0.141	0.413	0.015
1/2	0.500	0.4980	0.4960	0.750	0.729	0.312	0.302	0.040	1/4	0.250	0.188	0.550	0.020
5/8	0.625	0.6230	0.6210	0.875	0.853	0.375	0.365	0.050	5/16	0.312	0.234	0.687	0.024
3/4	0.750	0.7480	0.7460	1.000	0.977	0.500	0.490	0.069	3/8	0.375	0.281	0.826	0.030
1	1.000	0.9980	0.9960	1.312	1.287	0.625	0.610	0.083	1/2	0.500	0.375	1.098	0.040
1-1/4	1.250	1.2480	1.2460	1.750	1.723	0.750	0.735	0.102	5/8	0.625	0.469	1.368	0.050
1-1/2	1.500	1.4980	1.4960	2.125	2.095	1.000	0.980	0.138	7/8	0.875	0.656	1.638	0.060
1-3/4	1.750	1.7480	1.7460	2.375	2.345	1.125	1.105	0.157	1	1.000	0.750	1.908	0.070
2	2.000	1.9980	1.9960	2.750	2.720	1.250	1.230	0.176	1-1/4	1.250	0.937	2.178	0.080
See Notes 8	1		2						15		8		

Nominal Size or Basic Shoulder Diameter	K	F	D <sub>1</sub>		Threads per in.	G		I	N		E	P	
	Shoulder Neck Diameter	Shoulder Neck Width	Nominal Thread Size or Basic Thread Diameter			Thread Neck Diameter		Thread Neck Width	Thread Neck Fillet		Thread Length	Chamfer or Radius	
	Min	Max			Max	Min	Max	Min	Max	Min	Basic	Max	
1/4	0.250	0.227	0.093	10	0.1900	24	0.142	0.133	0.083	0.023	0.017	0.375	0.010
5/16	0.312	0.289	0.093	1/4	0.2500	20	0.193	0.182	0.100	0.028	0.022	0.438	0.010
3/8	0.375	0.352	0.093	5/16	0.3125	18	0.249	0.237	0.111	0.031	0.025	0.500	0.010
1/2	0.500	0.477	0.093	3/8	0.3750	16	0.304	0.291	0.125	0.035	0.029	0.625	0.010
5/8	0.625	0.602	0.093	1/2	0.5000	13	0.414	0.397	0.154	0.042	0.036	0.750	0.015
3/4	0.750	0.727	0.093	5/8	0.6250	11	0.521	0.502	0.182	0.051	0.045	0.875	0.015
1	1.000	0.977	0.125	3/4	0.7500	10	0.638	0.616	0.200	0.055	0.049	1.000	0.020
1-1/4	1.250	1.227	0.125	7/8	0.8750	9	0.750	0.726	0.222	0.062	0.056	1.125	0.020
1-1/2	1.500	1.478	0.125	1-1/8	1.1250	7	0.964	0.934	0.286	0.072	0.066	1.500	0.020
1-3/4	1.750	1.728	0.125	1-1/4	1.2500	7	1.089	1.059	0.286	0.072	0.066	1.750	0.020
2	2.000	1.978	0.125	1-1/2	1.5000	6	1.307	1.277	0.333	0.102	0.096	2.000	0.020
See Notes 18	8	8	13				10		10	10			