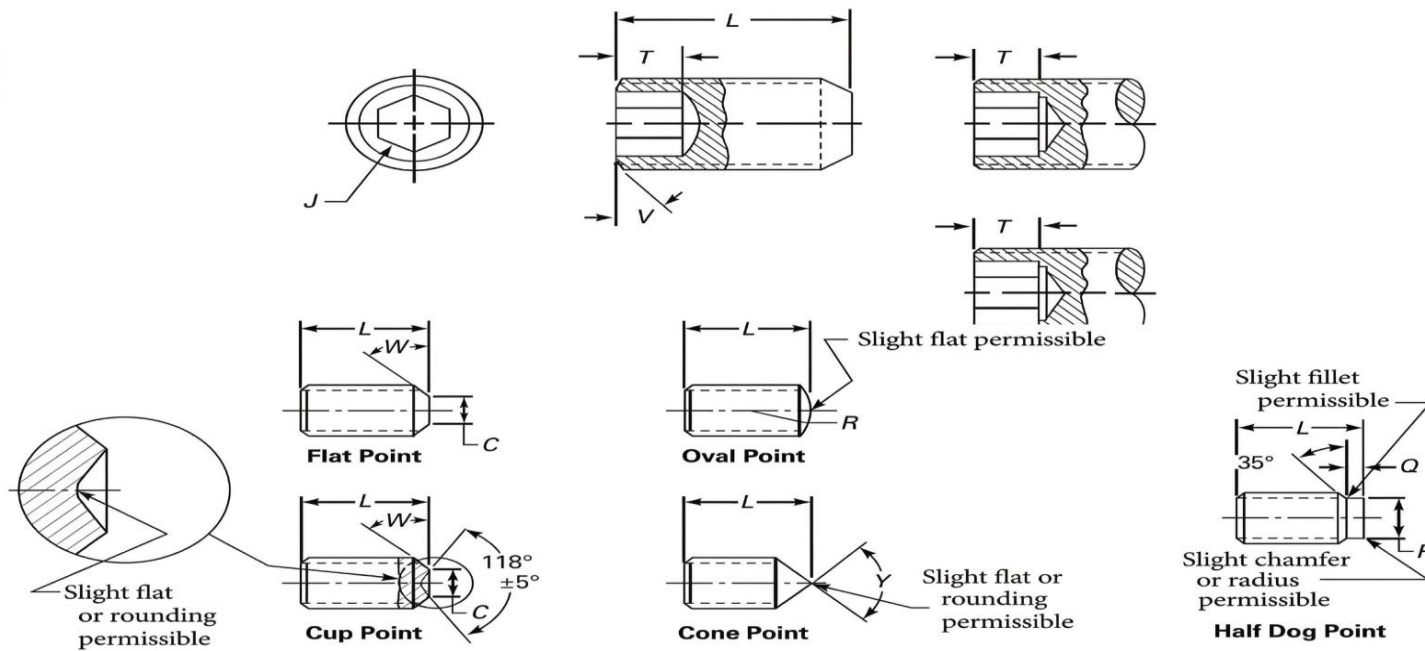


### Dimensions of Hexagon Socket Set Screws

ASME B18.3-2012

Nominal Size (Basic Product Diameter)		J		T	C		R	Y	P		Q		B			B1		
		Hexagon Socket Size		Minimum Key Engagement to Develop Functional Capability of Key	Cup and Flat point Diameters		Basic Oval Point Radius	Cone Point Angle 90 deg ± 2 deg for These Nominal Lengths or Longer	Half Dog Point				Shortest Optimum Nominal Length which TH Applies			Nominal Length to Which Ts Applies		
									Diameter		Length		Cup and Flat Point	90 deg Cone and Oval Points	Half Dog Point	Cup Flat Point	90 deg Cone and Oval Points	Half Dog Point
		Hex Socket TH	Max.	Min.	118 deg ± 2 deg for shorter Nominal	Max.	Min.	Max.	Min.									
5	( 0.1250 )	1/16	0.062	0.080	0.067	0.057	0.094	0.19	0.083	0.078	0.033	0.027	0.19	0.19	0.19	0.13	0.19	0.19
6	( 0.1380 )	1/16	0.062	0.080	0.074	0.064	0.104	0.19	0.092	0.087	0.038	0.032	0.19	0.25	0.19	0.13	0.25	0.18
8	( 0.1640 )	5/64	0.078	0.090	0.087	0.076	0.123	0.25	0.109	0.103	0.043	0.037	0.19	0.25	0.25	0.19	0.25	0.25
10	( 0.1900 )	3/32	0.094	0.100	0.102	0.088	0.142	0.25	0.127	0.12	0.049	0.041	0.19	0.25	0.25	0.19	0.25	0.25
1/4	( 0.2500 )	1/8	0.125	0.125	0.132	0.118	0.188	0.31	0.156	0.149	0.067	0.059	0.25	0.31	0.31	0.25	0.31	0.31
5/16	( 0.3125 )	5/32	0.156	0.156	0.172	0.156	0.234	0.38	0.203	0.195	0.082	0.074	0.31	0.44	0.38	0.31	0.44	0.38
3/8	( 0.3750 )	3/16	0.188	0.188	0.212	0.194	0.281	0.44	0.250	0.241	0.099	0.089	0.38	0.44	0.44	0.38	0.44	0.44
7/16	( 0.4375 )	7/32	0.219	0.219	0.252	0.232	0.328	0.5	0.297	0.287	0.114	0.104	0.44	0.63	0.5	0.44	0.63	0.5
1/2	( 0.5000 )	1/4	0.250	0.250	0.291	0.27	0.375	0.57	0.344	0.334	0.13	0.120	0.5	0.63	0.63	0.5	0.63	0.63

NOTE: ALL DIMENSIONS ARE IN INCHES.



### Dimensions of Hexagon Socket Set Screws

ASME B18.3-2012

Nominal Size (Basic Product Diameter)		J		T	C		R	Y	P		Q		B			B1		
		Hexagon Socket Size		Minimum Key Engagement to Develop Functional Capability of Key	Cup and Flat point Diameters		Basic Oval Point Radius	Cone Point Angle 90 deg ± 2 deg for These Nominal Lengths or Longer	Half Dog Point		Shortest Optimum Nominal Length which TH Applies			Nominal Length to Which Ts Applies				
									Diameter		Length		Cup and Flat Point	90 deg Cone and Oval Points	Half Dog Point	Cup Flat Point	90 deg Cone and Oval Points	Half Dog Point
		Hex Socket TH	Max.	Min.	118 deg ± 2 deg for shorter Nominal	Max.	Min.	Max.	Min.									
5/8	( 0.6250 )	5/16	0.312	0.312	0.371	0.347	0.469	0.75	0.469	0.456	0.164	0.148	0.63	0.88	0.88	0.63	0.88	0.88
3/4	( 0.7500 )	3/8	0.375	0.375	0.450	0.425	0.562	0.88	0.562	0.549	0.196	0.18	0.75	1.00	1.00	0.75	1.00	1.00
7/8	( 0.8750 )	1/2	0.500	0.500	0.53	0.502	0.656	1	0.656	0.642	0.227	0.211	0.88	1.00	1.00	0.88	1.25	1.00
1	( 1.0000 )	9/16	0.562	0.562	0.609	0.579	0.750	1.13	0.75	0.734	0.26	0.240	1.00	1.25	1.25	-	-	-
1-1/8	( 1.1250 )	9/16	0.562	0.562	0.689	0.655	0.844	1.25	0.844	0.826	0.291	0.271	1.25	1.50	1.25	-	-	-
1-1/4	( 1.2500 )	5/8	0.625	0.625	0.767	0.733	0.938	1.50	0.938	0.92	0.323	0.303	1.25	1.50	1.50	-	-	-
1-3/8	( 1.3750 )	5/8	0.625	0.625	0.848	0.808	1.031	1.63	1.031	1.011	0.354	0.334	1.50	1.75	1.50	-	-	-
1-1/2	( 1.5000 )	3/4	0.750	0.750	0.926	0.886	1.125	1.75	1.125	1.105	0.385	0.365	1.50	2.00	1.75	-	-	-
1-3/4	( 1.7500 )	1	1.000	1.000	1.086	1.039	1.312	2.00	1.312	1.289	0.448	0.428	1.75	2.25	2.00	-	-	-
2	( 2.0000 )	1	1.000	1.000	1.244	1.193	1.500	2.25	1.50	1.474	0.510	0.490	2.00	2.50	2.50	-	-	-

NOTE: ALL DIMENSIONS ARE IN INCHES.