





**Precision Technology  
Supplies Ltd**

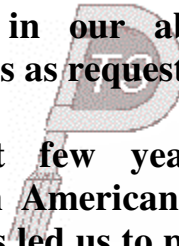


**Stainless Steel  
American Threaded  
Fasteners Handbook**

## Profile


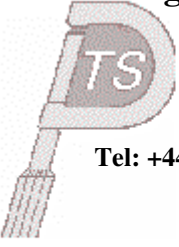


Established in 1988, Precision Technology Supplies Ltd prides itself on its ability to supply quality Stainless Steel Fasteners to a wide range of businesses throughout Europe and the rest of the world. In addition to the substantial stocks of our standard product range held at our facility in West Sussex, we are often able to source items of a more unusual nature. With continual re-stocking programmes at the heart of our business, we are confident in our ability of supplying quality fasteners as requested.



Over the last few years, our increased stockholding in American threaded fasteners (UNC/UNF) has led us to produce this guide to the continually growing range of unified products that we hold or are able to supply on short lead times.

We hope that you will find this guide useful, and that it complements our ever-expanding range of products available to you.



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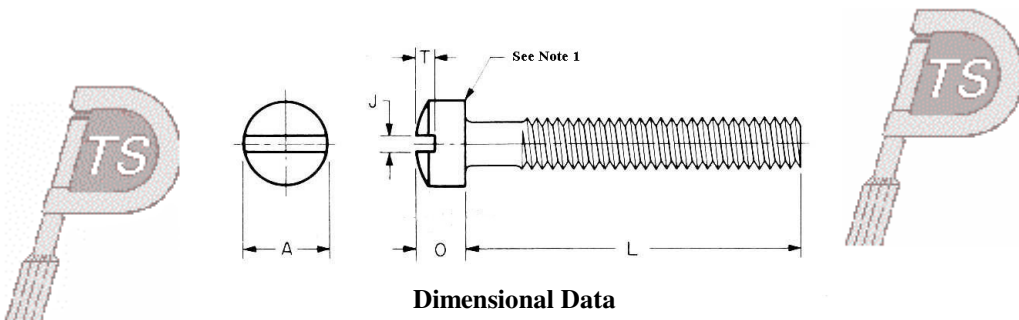
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# Stainless Steel Slotted Fillister Head Screws To ANSI B18.6.3



**Dimensional Data**

Thread Size	T.P.I UNC	T.P.I UNF	Head Diameter (Max)	Head Height (Max)	Slot Width (Max)	Slot Depth (Max)
			A	O	J	T
0		80	0.096	0.055	0.023	0.025
1	64	72	0.118	0.066	0.026	0.031
2	56	64	0.140	0.083	0.031	0.037
3	48	56	0.161	0.095	0.035	0.043
4	40	48	0.183	0.107	0.039	0.048
5	40	44	0.205	0.120	0.043	0.054
6	32	40	0.226	0.132	0.048	0.060
8	32	36	0.270	0.156	0.054	0.071
10	24	32	0.313	0.180	0.060	0.083
12	24	28	0.357	0.205	0.067	0.094
1/4	20	28	0.414	0.237	0.075	0.109
5/16	18	24	0.518	0.295	0.084	0.137
3/8	16	24	0.622	0.355	0.094	0.164
7/16	14	20	0.625	0.368	0.094	0.170
1/2	13	20	0.750	0.412	0.106	0.190
5/8	11	18	0.875	0.521	0.133	0.240
3/4	10	16	1.000	0.612	0.149	0.281

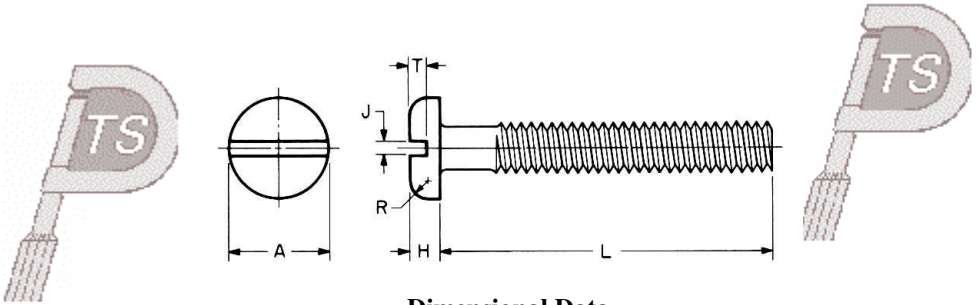
*Note 1. A slight rounding of the edges at periphery of head is permissible provided the diameter of the bearing circle is no less than 90 % of the minimum head diameter.*

**A2 (18/8) Stainless is readily available in most sizes.  
Some sizes are available in A4 (316) Material**

*All dimensions are for guidance only. No liability can result from their use*

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# Stainless Steel Slotted Pan Head Screws To ANSI B18.6.3



## Dimensional Data

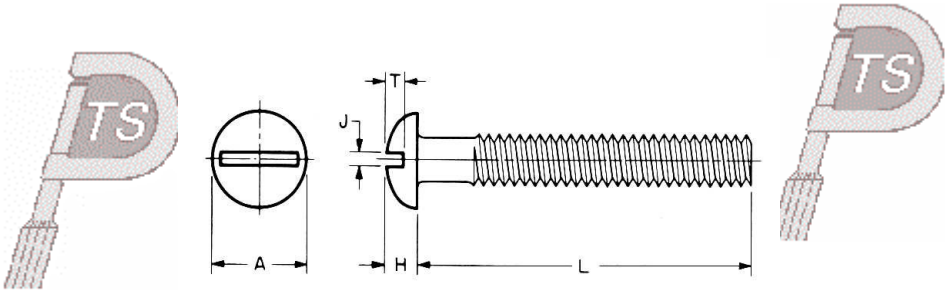
Thread Size	T.P.I UNC	T.P.I UNF	Head Diameter (Max) A	Head Height (Max) H	Slot Width (Max) J	Slot Depth (Max) T	Head Radius R
0		80	0.116	0.039	0.023	0.022	0.020
1	64	72	0.142	0.046	0.026	0.027	0.025
2	56	64	0.167	0.053	0.031	0.031	0.035
3	48	56	0.193	0.060	0.035	0.036	0.037
4	40	48	0.219	0.068	0.039	0.040	0.042
5	40	44	0.245	0.075	0.043	0.045	0.044
6	32	40	0.270	0.082	0.048	0.050	0.046
8	32	36	0.322	0.096	0.054	0.058	0.052
10	24	32	0.373	0.110	0.060	0.068	0.061
12	24	28	0.425	0.125	0.067	0.077	0.078
1/4	20	28	0.492	0.144	0.075	0.087	0.087
5/16	18	24	0.615	0.178	0.084	0.106	0.099
3/8	16	24	0.740	0.212	0.094	0.124	0.143
7/16	14	20	0.863	0.247	0.094	0.142	0.153
1/2	13	20	0.987	0.281	0.106	0.161	0.175
5/8	11	18	1.172	0.350	0.133	0.197	0.219
3/4	10	16	1.435	0.419	0.149	0.234	0.263

**A2 (18/8) Stainless is readily available in most sizes.  
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# Stainless Steel Slotted Round Head Screws To ANSI B18.6.3



**Dimensional Data**

Thread Size	T.P.I UNC	T.P.I UNF	Head Diameter (Max) A	Head Height (Max) H	Slot Width (Max) J	Slot Depth (Max) T
0		80	0.113	0.053	0.023	0.039
1	64	72	0.138	0.061	0.026	0.044
2	56	64	0.162	0.069	0.031	0.048
3	48	56	0.187	0.078	0.035	0.053
4	40	48	0.211	0.086	0.039	0.058
5	40	44	0.236	0.095	0.043	0.063
6	32	40	0.260	0.103	0.048	0.068
8	32	36	0.309	0.120	0.054	0.077
10	24	32	0.359	0.137	0.060	0.087
12	24	28	0.408	0.153	0.067	0.096
1/4	20	28	0.472	0.175	0.075	0.109
5/16	18	24	0.590	0.216	0.084	0.132
3/8	16	24	0.708	0.256	0.094	0.155
7/16	14	20	0.750	0.328	0.094	0.196
1/2	13	20	0.813	0.355	0.106	0.211
5/8	11	18	1.000	0.438	0.133	0.258
3/4	10	16	1.250	0.547	0.149	0.320

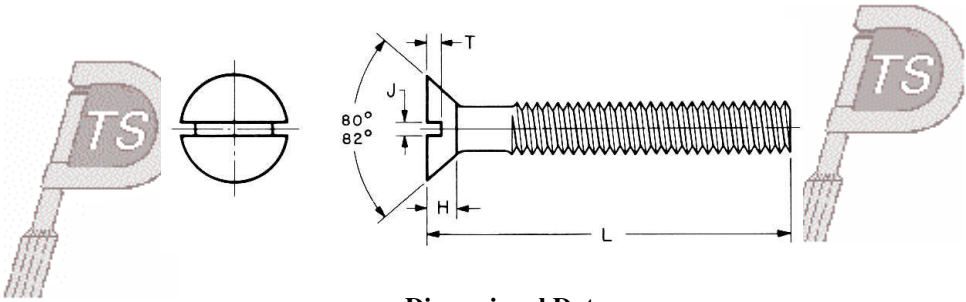
**A2 (18/8) Stainless is readily available in most sizes.**

**Some sizes are available in A4 (316) Material**

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# Stainless Steel Slotted Countersunk Head Screws To ANSI B18.6.3



## Dimensional Data

Thread Size	T.P.I UNC	T.P.I UNF	Head Diameter (Max)	Head Diameter (Min)	Head Height (Max) H	Slot Width (Max) J	Slot Depth (Max) T	See Note 1
0		80	0.119	0.099	0.035	0.023	0.015	1/8
1	64	72	0.146	0.123	0.043	0.026	0.019	1/8
2	56	64	0.172	0.147	0.051	0.031	0.023	1/8
3	48	56	0.199	0.171	0.059	0.035	0.027	1/8
4	40	48	0.225	0.195	0.067	0.039	0.030	3/16
5	40	44	0.252	0.220	0.075	0.043	0.034	3/16
6	32	40	0.279	0.244	0.083	0.048	0.038	3/16
8	32	36	0.332	0.292	0.100	0.054	0.045	1/4
10	24	32	0.385	0.340	0.116	0.060	0.053	5/16
12	24	28	0.438	0.389	0.132	0.067	0.060	3/8
1/4	20	28	0.507	0.452	0.153	0.075	0.070	7/16
5/16	18	24	0.635	0.568	0.191	0.084	0.088	1/2
3/8	16	24	0.762	0.685	0.230	0.094	0.106	9/16
7/16	14	20	0.812	0.723	0.223	0.094	0.103	5/8
1/2	13	20	0.875	0.775	0.223	0.106	0.103	3/4
5/8	11	18	1.125	1.002	0.298	0.133	0.137	
3/4	10	16	1.375	1.230	0.372	0.149	0.171	

*Note 1. Screws of this length and shorter shall have undercut heads*

**A2 (18/8) Stainless is readily available in most sizes.**

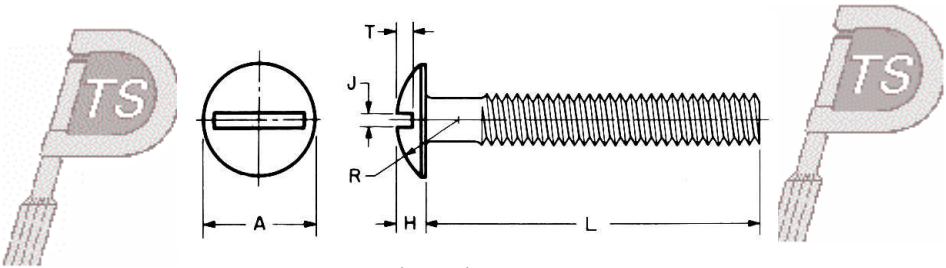
**Some sizes are available in A4 (316) Material**

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# Stainless Steel Slotted Mushroom Head Screws

## To ANSI B18.6.3



**Dimensional Data**

Thread Size	T.P.I UNC	T.P.I UNF	Head Diameter (Max) A	Head Height (Max) H	Slot Width (Max) J	Slot Depth (Max) T	Head Radius R
0		80	0.131	0.037	0.023	0.022	0.087
1	64	72	0.164	0.045	0.026	0.027	0.107
2	56	64	0.194	0.053	0.031	0.031	0.129
3	48	56	0.226	0.061	0.035	0.036	0.151
4	40	48	0.257	0.069	0.039	0.040	0.169
5	40	44	0.289	0.078	0.043	0.045	0.191
6	32	40	0.321	0.086	0.048	0.050	0.211
8	32	36	0.384	0.102	0.054	0.058	0.254
10	24	32	0.448	0.118	0.060	0.068	0.283
12	24	28	0.511	0.134	0.067	0.077	0.336
1/4	20	28	0.573	0.150	0.075	0.087	0.375
5/16	18	24	0.698	0.183	0.084	0.106	0.457
3/8	16	24	0.823	0.215	0.094	0.124	0.538
7/16	14	20	0.948	0.248	0.094	0.142	0.619
1/2	13	20	1.073	0.280	0.106	0.161	0.701
5/8	11	18	1.323	0.345	0.133	0.196	0.863
3/4	10	16	1.573	0.368	0.149	0.234	1.024

**A2 (18/8) Stainless is readily available in most sizes.**

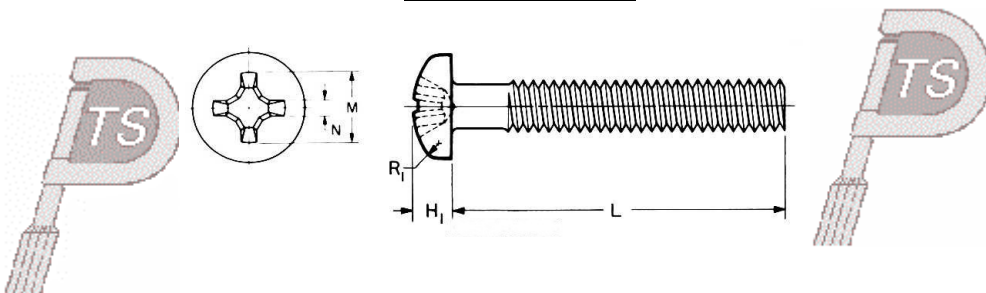
**Some sizes are available in A4 (316) Material**

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# Stainless Steel Phillips Pan Head Screws

## To ANSI B18.6.3



### Dimensional Data

Thread Size	T.P.I. UNC	T.P.I. UNF	Head Diameter (Max)	Head Height (Max) H1	Recess Diameter (Max) M	Recess Depth (Max)	Head Radius R1	Driver Size
0		80	0.116	0.044	0.067	0.039	0.005	0
1	64	72	0.142	0.053	0.074	0.045	0.005	0
2	56	64	0.167	0.062	0.104	0.059	0.010	1
3	48	56	0.193	0.071	0.112	0.068	0.010	1
4	40	48	0.219	0.080	0.122	0.078	0.010	1
5	40	44	0.245	0.089	0.158	0.083	0.015	2
6	32	40	0.270	0.097	0.166	0.091	0.015	2
8	32	36	0.322	0.115	0.182	0.108	0.015	2
10	24	32	0.373	0.133	0.199	0.124	0.020	2
12	24	28	0.425	0.151	0.259	0.141	0.025	3
1/4	20	28	0.492	0.175	0.281	0.161	0.035	3
5/16	18	24	0.615	0.218	0.350	0.193	0.040	4
3/8	16	24	0.740	0.261	0.389	0.233	0.040	4
7/16	14	20	0.863	0.305	0.413	0.259	0.050	4
1/2	13	20	0.987	0.348	0.435	0.280	0.055	4
5/8	11	18	1.172	0.434	0.587	0.343	0.075	5
3/4	10	16	1.435	0.521	0.633	0.382	0.085	5

**A2 (18/8) Stainless is readily available in most sizes.**

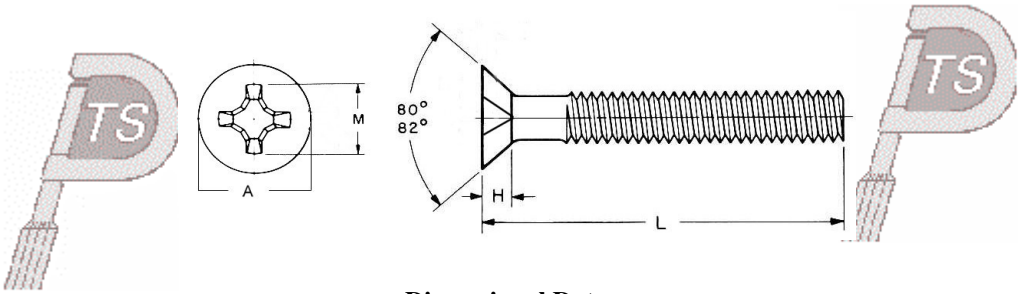
**Some sizes are available in A4 (316) Material**

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# Stainless Steel Phillips Countersunk Head Screws

## To ANSI B18.6.3



### Dimensional Data

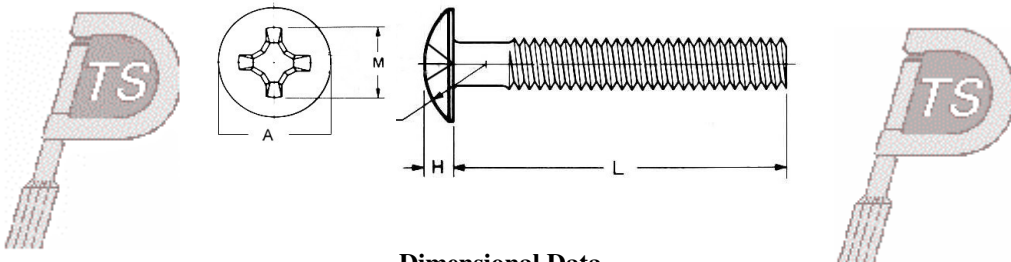
Thread Size	T.P.I UNC	T.P.I UNF	Head Diameter (Max) A	Head Diameter (Min) A	Head Height (Ref) H	Recess Diameter (Max) M	Recess Depth (Max)	Driver Size
0		80	0.119	0.099	0.035	0.069	0.043	0
1	64	72	0.146	0.123	0.043	0.077	0.051	0
2	56	64	0.172	0.147	0.051	0.102	0.063	1
3	48	56	0.199	0.171	0.059	0.107	0.068	1
4	40	48	0.225	0.195	0.067	0.128	0.089	1
5	40	44	0.252	0.220	0.075	0.154	0.086	2
6	32	40	0.279	0.244	0.083	0.174	0.106	2
8	32	36	0.332	0.292	0.100	0.189	0.121	2
10	24	32	0.385	0.340	0.116	0.204	0.136	2
12	24	28	0.438	0.389	0.132	0.268	0.156	3
1/4	20	28	0.507	0.452	0.153	0.283	0.171	3
5/16	18	24	0.635	0.568	0.191	0.365	0.216	4
3/8	16	24	0.762	0.685	0.230	0.393	0.245	4
7/16	14	20	0.812	0.723	0.223	0.409	0.261	4
1/2	13	20	0.875	0.775	0.223	0.424	0.276	4
5/8	11	18	1.125	1.002	0.298	0.576	0.342	5
3/4	10	16	1.375	1.23	0.372	0.64	0.406	5

**A2 (18/8) Stainless is readily available in most sizes.  
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# Stainless Steel Philips Mushroom Head Screws To ANSI B18.6.3



**Dimensional Data**

Thread Size	T.P.I UNC	T.P.I UNF	Head Diameter (Max) A	Head Height (Max) H	Recess Diameter (Max) M	Recess Depth (Max)	Driver Size
0		80	0.131	0.037	0.063	0.037	0
1	64	72	0.164	0.045	0.071	0.045	0
2	56	64	0.194	0.053	0.104	0.059	1
3	48	56	0.226	0.061	0.110	0.066	1
4	40	48	0.257	0.069	0.112	0.069	1
5	40	44	0.289	0.078	0.128	0.085	1
6	32	40	0.321	0.086	0.158	0.084	2
8	32	36	0.384	0.102	0.173	0.099	2
10	24	32	0.448	0.118	0.188	0.115	2
12	24	28	0.511	0.134	0.248	0.128	3
1/4	20	28	0.573	0.150	0.263	0.143	3
5/16	18	24	0.698	0.183	0.352	0.193	4
3/8	16	24	0.823	0.215	0.383	0.226	4
7/16	14	20	0.948	0.248	0.414	0.257	4
1/2	13	20	1.073	0.280	0.444	0.288	4
5/8	11	18	1.323	0.345	0.559	0.322	5
3/4	10	16	1.573	0.410	0.620	0.384	5

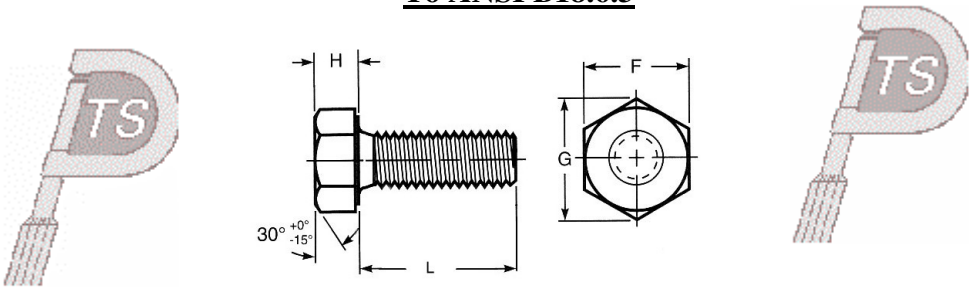
**A2 (18/8) Stainless is readily available in most sizes.  
Some sizes are available in A4 (316) Material**

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# Stainless Steel Hexagon Head Setscrews

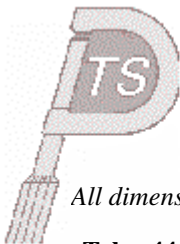
## To ANSI B18.6.3



### Dimensional Data

Thread Size	T.P.I UNC	T.P.I UNF	Across Flats (Max) F	Head Height (Max) H	Across Corners (Min) G
1	64	72	0.125	0.044	0.134
2	56	64	0.125	0.050	0.134
3	48	56	0.188	0.055	0.202
4	40	48	0.188	0.060	0.202
5	40	44	0.188	0.070	0.202
6	32	40	0.250	0.093	0.272
8	32	36	0.250	0.110	0.272
10	24	32	0.312	0.120	0.340
12	24	28	0.312	0.155	0.340

**A2 (18/8) Stainless is readily available in most sizes.  
Some sizes are available in A4 (316) Material**



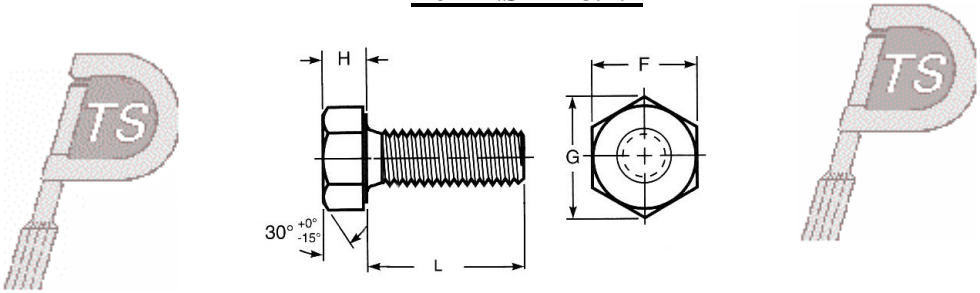
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# Stainless Steel Hexagon Head Setscrews

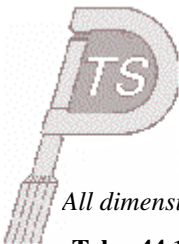
## To ANSI B18.2.1



### Dimensional Data

Thread Size	T.P.I UNC	T.P.I UNF	Across Flats (Max) F	Head Height (Max) H	Across Corners (Min) G
1/4	20	28	7/16	0.163	0.488
5/16	18	24	1/2	0.211	0.557
3/8	16	24	9/16	0.243	0.628
7/16	14	20	5/8	0.291	0.698
1/2	13	20	3/4	0.323	0.840
5/8	11	18	15/16	0.403	1.051
3/4	10	16	1-1/8	0.483	1.254
7/8	9	14	1-5/16	0.563	1.465
1	8	12	1-1/2	0.627	1.675

**A2 (18/8) Stainless is readily available in most sizes.  
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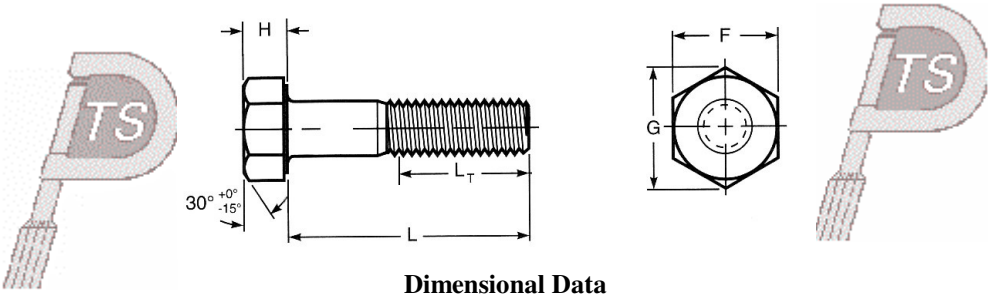


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# Stainless Steel Hexagon Head Bolts To ANSI B18.2.1



**Dimensional Data**

Thread Size	T.P.I UNC	T.P.I UNF	Across Flats (Basic) F	Head Height (Basic) H	Across Corners (Max) G	Thread Length Bolts Up To 6" Long L <sub>T</sub>	Thread Length Bolts Over 6" Long L <sub>T</sub>
1/4	20	28	7/16	5/32	0.505	0.750	1.000
5/16	18	24	1/2	13/64	0.577	0.875	1.125
3/8	16	24	9/16	15/64	0.650	1.000	1.250
7/16	14	20	5/8	9/32	0.722	1.125	1.375
1/2	13	20	3/4	5/16	0.866	1.250	1.500
5/8	11	18	15/16	25/64	1.083	1.500	1.750
3/4	10	16	1.1/8	15/32	1.299	1.750	2.000
7/8	9	14	1-5/16	35/64	1.516	2.000	2.250
1	8	12	1-1/2	39/64	1.732	2.250	2.500
1-1/8	7	8	1-11/16	11/16	1.949	2.500	2.750
1-1/4	7	8	1-7/8	25/32	2.165	2.750	3.000
1-3/8	6	8	2-1/16	27/32	2.382	3.000	3.250
1-1/2	6	8	2-1/4	1-5/16	2.598	3.250	3.500
1-3/4	5	8	2-5/8	1-3/32	3.031	3.750	4.000
2	4-1/2	8	3	1-7/32	3.464	4.250	4.500

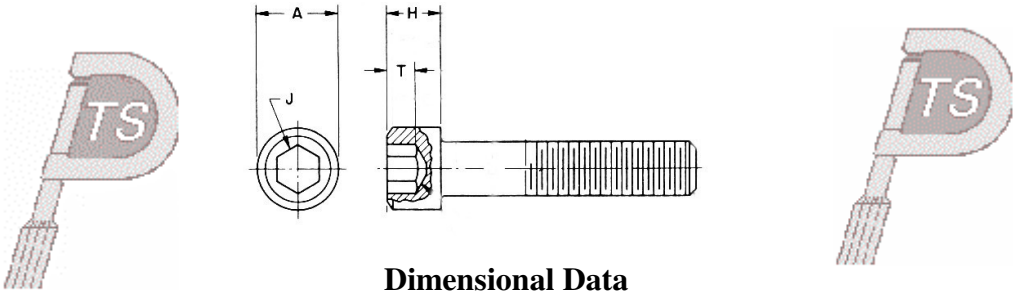
*All Hex Bolts may have an additional 1/4" to 3/8" of thread, particularly on short lengths up to 1.1/2" and on longer lengths over 4"*

**A2 (18/8) Stainless is readily available in most sizes.  
Some sizes are available in A4 (316) Material**

*All dimensions are for guidance only. No liability can result from their use*

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# Stainless Steel Socket Capscrews To ANSI B18.3



## Dimensional Data

Thread Size	T.P.I UNC	T.P.I UNF	Head Diameter (Max) A	Head Height (Max) H	Key Engagement (Min) T	Key Size J	Thread Length (Min)	Thread Length (Max)
0		80	0.096	0.060	0.025	0.050	0.50	0.62
1	64	72	0.118	0.073	0.031	1/16	0.62	0.77
2	56	64	0.140	0.086	0.038	5/64	0.62	0.80
3	48	56	0.161	0.099	0.044	5/64	0.62	0.83
4	40	48	0.183	0.112	0.051	3/32	0.75	0.99
5	40	44	0.205	0.125	0.057	3/32	0.75	1.00
6	32	40	0.226	0.138	0.064	7/64	0.75	1.05
8	32	36	0.270	0.164	0.077	9/64	0.88	1.19
10	24	32	0.312	0.190	0.090	5/32	0.88	1.27
1/4	20	28	0.375	0.250	0.120	3/16	1.00	1.50
5/16	18	24	0.469	0.312	0.151	1/4	1.12	1.71
3/8	16	24	0.562	0.375	0.182	5/16	1.25	1.94
7/16	14	20	0.656	0.438	0.213	3/8	1.38	2.17
1/2	13	20	0.750	0.500	0.245	3/8	1.50	2.38
5/8	11	18	0.938	0.625	0.307	1/2	1.75	2.82
3/4	10	16	1.125	0.750	0.370	5/8	2	3.25
7/8	9	14	1.312	0.875	0.432	3/4	2.25	3.69
1	8	12	1.500	1.000	0.495	3/4	2.50	4.12

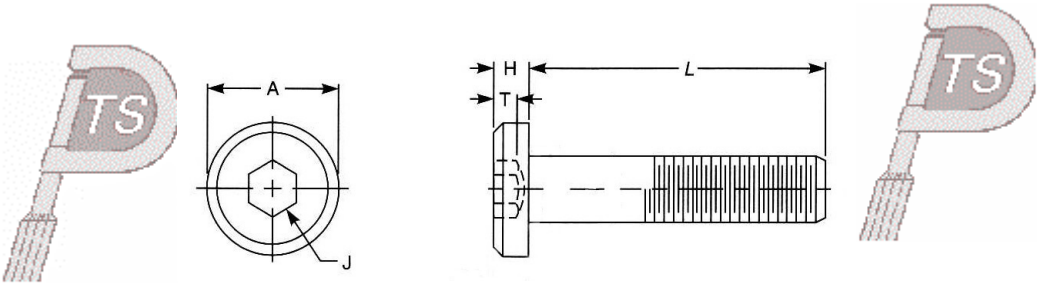
**A2 (18/8) Stainless is readily available in most sizes.**

**Some sizes are available in A4 (316) Material**

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# Stainless Steel Low Head Socket Capscrews To ANSI B18.3



## Dimensional Data

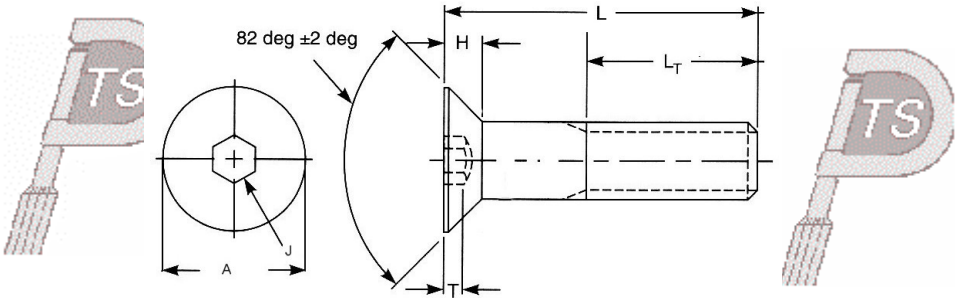
Thread Size	T.P.I UNC	T.P.I UNF	Head Diameter (Max) A	Head Height (Max) H	Key Engagement (Min) T	Key Size J	Thread Length (Min)	Thread Length (Max)
4	40	48	0.183	0.059	0.038	0.050	0.75	0.99
5	40	44	0.205	0.065	0.044	1/16	0.75	1.00
6	32	40	0.226	0.072	0.050	1/16	0.75	1.05
8	32	36	0.270	0.085	0.060	5/64	0.88	1.19
10	24	32	0.312	0.098	0.072	3/32	0.88	1.27
1/4	20	28	0.375	0.127	0.094	1/8	1.00	1.50
5/16	18	24	0.437	0.158	0.110	5/32	1.12	1.71
3/8	16	24	0.562	0.192	0.115	3/16	1.25	1.94
7/16	14	20	0.625	0.223	0.135	7/32	1.38	2.17
1/2	13	20	0.750	0.254	0.151	1/4	1.50	2.38
5/8	11	18	0.875	0.316	0.250	5/16	1.75	2.82

**A2 (18/8) Stainless is readily available in most sizes.**  
**Some sizes are available in A4 (316) Material**

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# Stainless Steel Socket Countersunk To ANSI B18.3



## Dimensional Data

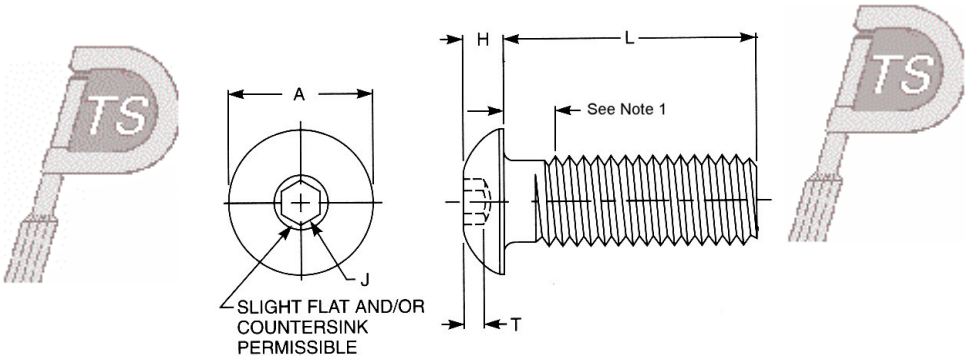
Thread Size	T.P.I UNC	T.P.I UNF	Head Diameter (Max) A	Head Height (Max) H	Key Size J	Key Engagement (Min) T	Thread Length (Min)	Thread Length (Max)
0		80	0.138	0.044	0.035	0.025	0.50	0.62
1	64	72	0.168	0.054	0.050	0.031	0.62	0.77
2	56	64	0.197	0.064	0.050	0.038	0.62	0.80
3	48	56	0.226	0.073	1/16	0.044	0.62	0.83
4	40	48	0.255	0.083	1/16	0.055	0.75	0.99
5	40	44	0.281	0.090	5/64	0.061	0.75	1.00
6	32	40	0.307	0.097	5/64	0.066	0.75	1.05
8	32	36	0.359	0.112	3/32	0.076	0.88	1.19
10	24	32	0.411	0.127	1/8	0.087	0.88	1.27
1/4	20	28	0.531	0.161	5/32	0.111	1.00	1.50
5/16	18	24	0.656	0.198	3/16	0.135	1.12	1.71
3/8	16	24	0.781	0.234	7/32	0.159	1.25	1.94
7/16	14	20	0.844	0.234	1/4	0.159	1.38	2.17
1/2	13	20	0.938	0.251	5/16	0.172	1.50	2.38
5/8	11	18	1.188	0.324	3/8	0.220	1.75	2.82
3/4	10	16	1.438	0.396	1/2	0.220	2.00	3.25

**A2 (18/8) Stainless is readily available in most sizes.**  
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# Stainless Steel Socket Button Head To ANSI B18.3



## Dimensional Data

Thread Size	T.P.I UNC	T.P.I UNF	Head Diameter (Max) A	Head Height (Max) H	Key Size J	Key Engagement (Min) T	Maximum Standard Length
0		80	0.114	0.032	0.035	0.020	0.50
1	64	72	0.139	0.039	0.050	0.028	0.50
2	56	64	0.164	0.046	0.050	0.028	0.50
3	48	56	0.188	0.052	1/16	0.035	0.50
4	40	48	0.213	0.059	1/16	0.035	0.50
5	40	44	0.238	0.066	5/64	0.044	0.50
6	32	40	0.262	0.073	5/64	0.044	0.63
8	32	36	0.312	0.087	3/32	0.052	0.75
10	24	32	0.361	0.101	1/8	0.070	1.00
1/4	20	28	0.437	0.132	5/32	0.087	1.00
5/16	18	24	0.547	0.166	3/16	0.105	1.00
3/8	16	24	0.656	0.199	7/32	0.122	1.25
1/2	13	20	0.875	0.265	5/16	0.175	2.00
5/8	11	18	1.000	0.331	3/8	0.210	2.00

*Note 1. Screws longer than standard length listed above, thread length shall be between the minimum limit of twice the diameter plus 0.5 in and the maximum limit of within two pitches of the head*

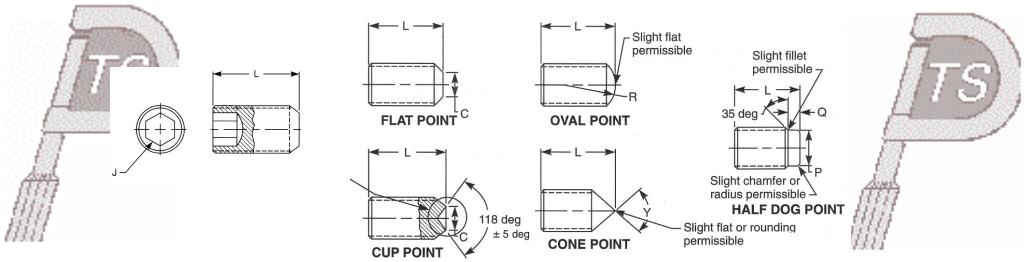
**A2 (18/8) Stainless is readily available in most sizes.**  
**Some sizes are available in A4 (316) Material**

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# Stainless Steel Socket Setscrews

## NSI B18.3



### Dimensional Data

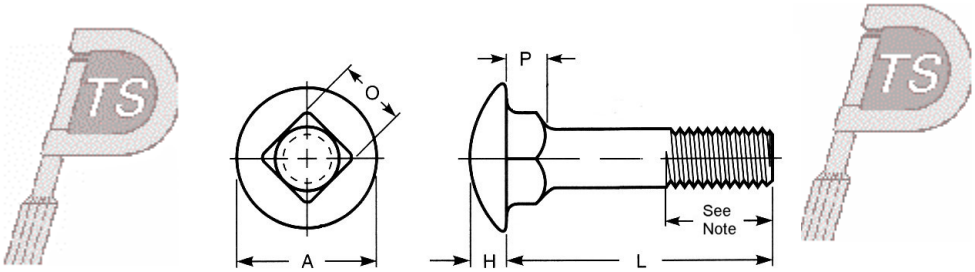
Thread Size	T.P.I UNC	T.P.I UNF	Key Size J	Cup & Flat Pt Diameter C (Max)	Oval Point Radius R	Cone Point (See Note 1) Y	Half Dog Point Length Q (Max)	Half Dog Point Diameter P (Max)
0		80	0.028	0.033	0.045	0.09	0.017	0.040
1	64	72	0.028	0.040	0.055	0.09	0.021	0.049
2	56	64	0.035	0.047	0.064	0.13	0.024	0.057
3	48	56	0.050	0.054	0.074	0.13	0.027	0.066
4	40	48	0.050	0.061	0.084	0.19	0.030	0.075
5	40	44	1/16	0.067	0.094	0.19	0.033	0.083
6	32	40	1/16	0.074	0.104	0.19	0.038	0.092
8	32	36	5/64	0.087	0.123	0.25	0.043	0.109
10	24	32	3/32	0.102	0.142	0.25	0.049	0.127
1/4	20	28	1/8	0.132	0.188	0.31	0.067	0.156
5/16	18	24	5/32	0.172	0.234	0.38	0.082	0.203
3/8	16	24	3/16	0.212	0.281	0.44	0.099	0.250
7/16	14	20	7/32	0.252	0.328	0.50	0.114	0.297
1/2	13	20	1/4	0.291	0.375	0.57	0.130	0.344
5/8	11	18	5/16	0.371	0.469	0.75	0.164	0.469
3/4	10	16	3/8	0.450	0.562	0.88	0.196	0.562

Note 1. Cone point angle 90 deg for screws this length or longer; 118 deg for screws shorter than this length

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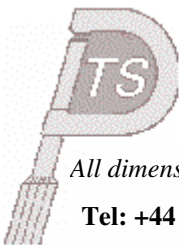
# Stainless Steel Carriage Bolts To ANSI B18.5



## Dimensional Data

Thread Size	T.P.I UNC	T.P.I UNF	Head Diameter (Max)	Head Height (Max)	Square Width (Max)	Square Depth (Max)
			A	H	O	P
10	24	32	0.469	0.114	0.199	0.125
1/4	20	28	0.594	0.145	0.260	0.156
5/16	18	24	0.719	0.176	0.324	0.187
3/8	16	24	0.844	0.208	0.388	0.219
1/2	13	20	1.094	0.270	0.515	0.281
5/8	11	18	1.344	0.344	0.642	0.344
3/4	10	16	1.594	0.406	0.768	0.406
7/8	9	14	1.844	0.459	0.895	0.469
1	8	12	2.094	0.531	1.022	0.531

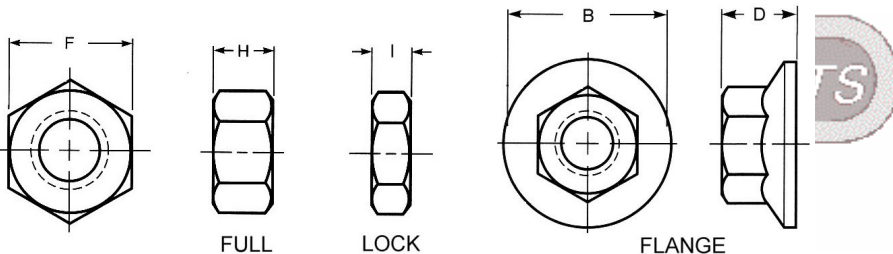
*Note: Minimum thread length shall be equal to twice the basic diameter plus 1/4" for bolts up to 6" long, and twice the diameter plus 1/2" for longer than 6". Bolts shorter than minimum thread length shall be fully threaded.*



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## Stainless Steel Hex Nuts To ANSI B18.2.2 & B18.6.3



### Dimensional Data

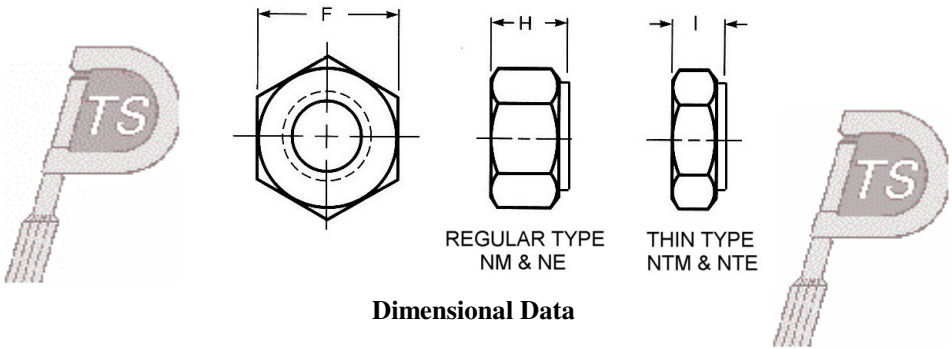
Thread Size	T.P.I UNC	T.P.I UNF	Across Flats Full & Flange Nuts (Max) F	Across Flats Lock Nuts (Max) F	Thickness Full Nuts (Max) H	Thickness Lock Nuts (Max) I	Flange Diameter (Max) B	Flange Nut Thickness (Max) D
0		80	0.156	0.125	0.050	0.047	*	*
1	64	72	0.156	0.125	0.050	0.047	*	*
2	56	64	0.188	0.156	0.066	0.063	*	*
3	48	56	0.188	*	0.066	*	*	*
4	40	48	0.250	0.188	0.098	0.063	*	*
5	40	44	0.312	0.250	0.114	0.094	*	*
6	32	40	0.312	0.250	0.114	0.094	0.422	0.171
8	32	36	0.344	0.250	0.130	0.094	0.469	0.203
10	24	32	0.375	0.312	0.130	0.109	0.500	0.219
12	24	28	0.438	*	0.161	*	0.594	0.236
1/4	20	28	0.438	0.438	0.226	0.163	0.594	0.236
5/16	18	24	0.500	0.500	0.273	0.195	0.680	0.283
3/8	16	24	0.562	0.562	0.337	0.227	0.750	0.347
7/16	14	20	0.688	0.688	0.385	0.260	0.937	0.395
1/2	13	20	0.750	0.750	0.448	0.323	1.031	0.458
5/8	11	18	0.938	0.938	0.559	0.387	1.248	0.569
3/4	10	16	1.125	1.125	0.665	0.446	1.500	0.675
7/8	9	14	1.312	1.312	0.776	0.510	*	*
1	8	12	1.500	1.500	0.887	0.575	*	*

*A2 (18/8) Stainless is readily available in most sizes. Some sizes are available in A4 (316) Material*

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# Stainless Steel Nylon Insert Locking Nuts Regular & Thin Type (NM, NE, NTM & NTE)



**Dimensional Data**

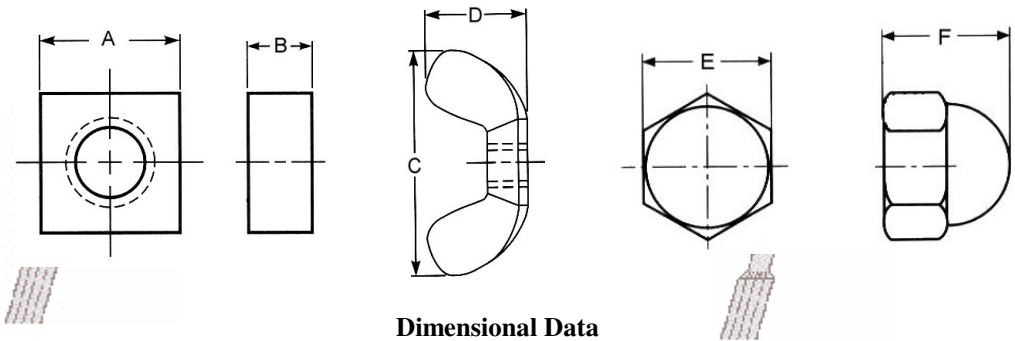
Thread Size	T.P.I UNC	T.P.I UNF	Across Flats	Thickness Regular (NM & NE)	Thickness Thin (NTM & NTE)
2	56	64	0.250	0.141	*
3	48	56	0.250	0.141	*
4	40	48	0.250	0.141	0.109
5	40	44	0.250	0.141	*
6	32	40	0.312	0.172	0.125
8	32	36	0.344	0.234	0.172
10	24	32	0.375	0.234	0.172
12	24	28	0.438	0.313	*
1/4	20	28	0.438	0.313	0.203
5/16	18	24	0.500	0.344	0.250
3/8	16	24	0.563	0.453	0.266
7/16	14	20	0.625	0.453	0.313
1/2	13	20	0.750	0.594	0.313
5/8	11	18	0.938	0.750	0.391
3/4	10	16	1.063	0.875	0.408
7/8	9	14	1.250	0.984	0.468
1	8	12	1.440	1.047	0.562

**A2 (18/8) Stainless is readily available in most sizes.  
Some sizes are available in A4 (316) Material**

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# Stainless Steel Square, Wing & Dome Nuts



**Dimensional Data**

Thread Size	T.P.I UNC	T.P.I UNF	Square Nut Across Flats (Max) A	Square Nut Height (Max) B	Wing Nuts Span (Max) C	Wing Nuts Height (Max) D	Dome Nuts Across Flats (Max) E	Dome Nut Height (+/-0.10)
0		80	0.156	0.050	*	*	*	*
1	64	72	0.156	0.050	*	*	*	*
2	56	64	0.188	0.066	*	*	*	*
3	48	56	0.188	0.066	*	*	*	*
4	40	48	0.250	0.098	0.720	0.410	0.250	0.250
5	40	44	0.312	0.114	*	*	*	*
6	32	40	0.312	0.114	0.720	0.410	0.312	0.296
8	32	36	0.344	0.130	0.910	0.470	0.312	0.312
10	24	32	0.375	0.130	0.910	0.470	0.375	0.390
12	24	28	0.438	0.161	*	*	0.375	0.421
1/4	20	28	0.438	0.193	1.100	0.570	0.437	0.468
5/16	18	24	0.562	0.225	1.250	0.660	0.562	0.531
3/8	16	24	0.625	0.257	1.440	0.790	0.625	0.625
7/16	14	20	*	*	*	*	0.625	0.718
1/2	13	20	*	*	1.940	1.000	0.750	0.812
5/8	11	18	*	*	*	*	1.000	0.984
3/4	10	16	*	*	*	*	1.062	1.187

**A2 (18/8) Stainless is readily available in most sizes.**

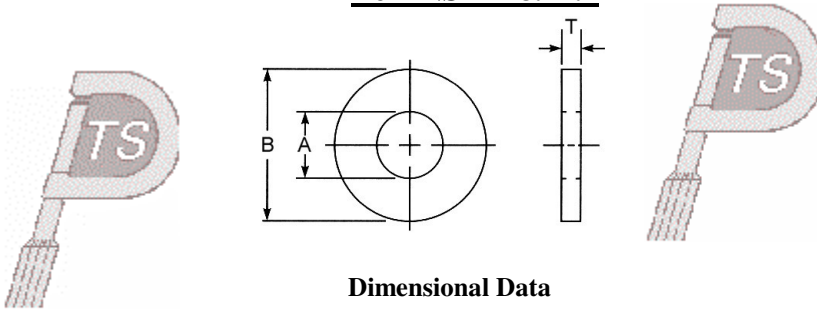
**Some sizes are available in A4 (316) Material**

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# Stainless Steel Flat Washers

## To ANSI B18.22.1



**Dimensional Data**

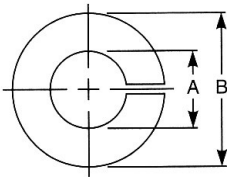
Nominal Size A	Flat Washer O/D B	Flat Washer Thickness T	Penny Washers O/D B	Penny Washers Thickness T
0	0.187	0.020	*	*
2	0.250	0.031	*	*
3	0.250	0.031	*	*
4	0.312	0.031	*	*
5	0.438	0.047	*	*
6	0.375	0.031	0.625	0.031
8	0.375	0.031	0.750	0.040
10	0.437	0.063	0.750	0.040
12	0.562	0.050	*	*
1/4	0.625	0.050	1.000	0.050
5/16	0.750	0.050	1.250	0.050
3/8	0.875	0.050	1.500	0.062
7/16	1.125	0.062	*	*
1/2	1.250	0.062	2.000	0.062
5/8	1.500	0.078	*	*
3/4	1.875	0.109	2.000	0.125
7/8	2.000	0.109	*	*
1	2.000	0.125	*	*

**A2 (18/8) Stainless is readily available in most sizes.  
Some sizes are available in A4 (316) Material**

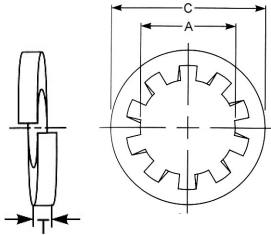
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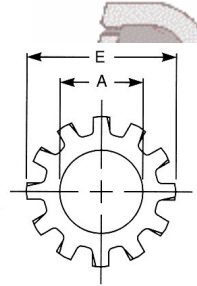
# Stainless Steel lock Washers To ANSI B18.21.1



Spring



Internal Tooth



External Tooth

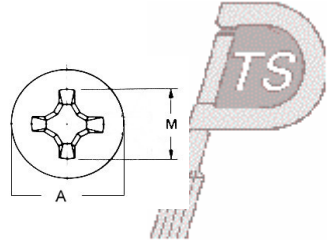
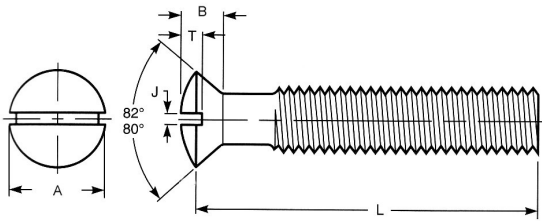
## Dimensional Data

Nominal Size A	Spring Washer O/D (Max) B	Spring Washer Thickness T	Internal Tooth O/D (Max) C	External Tooth O/D (Max) E	Tooth Washer Thickness (Max) D
0	0.137	0.017	*	*	*
1	0.150	0.020	*	*	*
2	0.172	0.020	0.200	*	0.016
3	0.195	0.025	0.232	0.235	0.016
4	0.209	0.025	0.270	0.260	0.018
5	0.236	0.031	0.280	0.285	0.020
6	0.250	0.031	0.295	0.320	0.022
8	0.293	0.040	0.340	0.381	0.023
10	0.334	0.047	0.381	0.410	0.024
12	0.377	0.056	0.410	0.475	0.027
1/4	0.487	0.062	0.478	0.510	0.028
5/16	0.583	0.078	0.610	0.610	0.034
3/8	0.680	0.094	0.692	0.694	0.067
7/16	0.776	0.109	0.789	0.760	0.040
1/2	0.869	0.125	0.900	0.900	0.045
5/8	1.072	0.156	1.071	1.070	0.050
3/4	1.264	0.188	1.245	1.260	0.055
7/8	1.455	0.219	1.410	1.410	0.060
1	1.647	0.250	1.637	1.620	0.067

All dimensions are for guidance only. No liability can result from their use

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# Stainless Steel Raised Countersunk Slot & Phillips To ANSI B18.6.3



## Dimensional Data

Thread Size	T.P.I UNC	T.P.I UNF	Head Diameter (Max) A	Head Diameter (Min) A	Head Height B	Slot Width (Max) J	Slot Depth (Max) T	Recess Diameter M	Driver Size
0		80	0.112	0.096	0.056	0.023	0.030	0.068	0
1	64	72	0.137	0.120	0.068	0.026	0.038	0.070	0
2	56	64	0.162	0.144	0.080	0.031	0.045	0.106	1
3	48	56	0.187	0.167	0.092	0.035	0.052	0.118	1
4	40	48	0.212	0.191	0.104	0.039	0.059	0.130	1
5	40	44	0.237	0.215	0.116	0.043	0.067	0.152	2
6	32	40	0.262	0.238	0.128	0.048	0.074	0.172	2
8	32	36	0.312	0.285	0.152	0.054	0.088	0.186	2
10	24	32	0.362	0.333	0.176	0.060	0.103	0.202	2
12	24	28	0.412	0.380	0.200	0.067	0.117	0.264	3
1/4	20	28	0.477	0.442	0.232	0.075	0.136	0.284	3
5/16	18	24	0.597	0.556	0.290	0.084	0.171	0.384	4
3/8	16	24	0.717	0.670	0.347	0.094	0.206	0.404	4
7/16	14	20	0.760	0.715	0.345	0.094	0.210	0.416	4
1/2	13	20	0.815	0.765	0.354	0.106	0.216	0.430	4
5/8	11	18	1.050	0.890	0.410	0.133	0.285	0.580	5
3/4	10	16	1.285	1.215	0.467	0.149	0.353	0.642	5

**A2 (18/8) Stainless is readily available in most sizes.**  
**Some sizes are available in A4 (316) Material**

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## Also Available

**Full range of Metric Stainless Fasteners  
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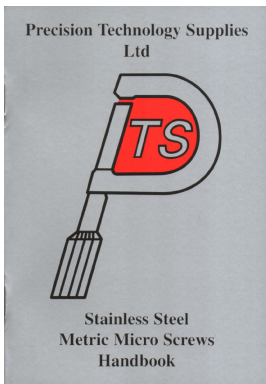
**Nylon Fasteners**

**Blind Rivets**

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**Stainless Steel & Beryllium Copper  
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