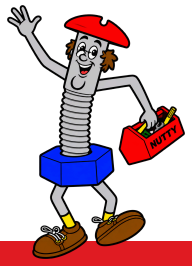
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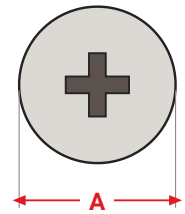
PRODUCT DATA SHEET

Flat Head Machine Screws – Inch Series

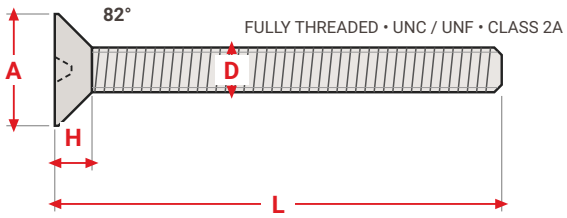
1.0 Dimensions

As per ASME B18.6.3 (inches) • 82° countersunk • Phillips drive • zinc plated steel & 18-8 stainless





TOP OF HEAD (PHILLIPS)



Nominal Size	Threads per Inch	D	A		H		M		G	N	Phillips Driver
		Basic Major Dia.	Head Diameter		Head Height		Recess Diameter		Recess Depth	Recess Width	
		Max	Max	Min	Max	Min	Max	Min	Ref	Ref	Size
#2	56	0.0860	0.172	0.147	0.051	0.040	0.102	0.089	0.063	0.017	1
#4	40	0.1120	0.225	0.195	0.067	0.055	0.128	0.115	0.089	0.018	1
#6	32	0.1380	0.279	0.244	0.083	0.069	0.174	0.161	0.106	0.029	2
#8	32	0.1640	0.332	0.292	0.100	0.084	0.189	0.176	0.121	0.030	2
#10	24	0.1900	0.385	0.340	0.116	0.098	0.204	0.191	0.136	0.032	2
#10	32	0.1900	0.385	0.340	0.116	0.098	0.204	0.191	0.136	0.032	2
#12	24	0.2160	0.438	0.389	0.132	0.112	0.268	0.255	0.156	0.035	3
1/4	20	0.2500	0.507	0.452	0.153	0.131	0.283	0.270	0.171	0.036	3
5/16	18	0.3125	0.635	0.568	0.191	0.165	0.365	0.352	0.216	0.061	4
3/8	16	0.3750	0.762	0.685	0.230	0.200	0.393	0.380	0.245	0.065	4

Notes:

- Head angle 82°. Length (L) is measured overall, from the top of the head to the end of the screw.
- A Max is the theoretical sharp head diameter; A Min is the absolute minimum with the edge flat or rounded.
- Screws are fully threaded. Unified inch threads (UNC / UNF), class of fit 2A per ASME B1.1. Phillips recess: M = diameter, G = depth, N = width.

1.1 Sizes Stocked

Lengths in inches • Phillips drive

Thread	Zinc Plated Steel – Lengths Stocked	18-8 Stainless Steel – Lengths Stocked
2-56	–	1/8", 3/16", 1/4", 5/16", 3/8", 1/2"
4-40	1/4", 3/8", 1/2", 5/8", 3/4", 7/8", 1", 1-1/4", 1-1/2"	1/8", 3/16", 1/4", 5/16", 3/8", 7/16", 1/2", 5/8", 3/4", 7/8", 1", 1-1/4", 1-1/2"
6-32	1/4", 3/8", 1/2", 5/8", 3/4", 1", 1-1/4", 1-1/2", 2", 2-1/2", 3"	3/16", 1/4", 5/16", 3/8", 1/2", 5/8", 3/4", 7/8", 1", 1-1/4", 1-1/2"
8-32	1/4", 3/8", 1/2", 5/8", 3/4", 7/8", 1", 1-1/4", 1-1/2", 1-3/4", 2", 2-1/2", 3"	3/16", 1/4", 5/16", 3/8", 1/2", 5/8", 3/4", 7/8", 1", 1-1/4", 1-1/2", 1-3/4", 2"
10-24	3/8", 1/2", 5/8", 3/4", 1", 1-1/4", 1-1/2", 1-3/4", 2", 2-1/2", 3"	3/8", 1/2", 5/8", 3/4", 7/8", 1", 1-1/4", 1-1/2", 1-3/4", 2", 2-1/2", 3", 3-1/2", 4", 5", 6"
10-32	3/8", 1/2", 5/8", 3/4", 1", 1-1/4", 1-1/2", 2", 2-1/2", 3"	3/8", 1/2", 5/8", 3/4", 7/8", 1", 1-1/4", 1-1/2", 1-3/4", 2", 2-1/2", 3", 3-1/2", 4"
12-24	–	3/4", 1", 1-1/4", 1-1/2", 2"
1/4-20	3/8", 1/2", 5/8", 3/4", 1", 1-1/4", 1-1/2", 1-3/4", 2", 2-1/2", 3"	1/2", 5/8", 3/4", 7/8", 1", 1-1/4", 1-1/2", 1-3/4", 2", 2-1/2", 3", 4", 5", 6"
5/16-18	–	1", 1-1/4", 1-1/2", 2", 2-1/2", 3", 3-1/2", 4", 5", 6"
3/8-16	–	1", 1-1/4", 1-1/2", 2", 2-1/2", 3", 4", 5", 6"

2.0 Mechanical Properties

2.1 ZINC PLATED STEEL – LOW CARBON STEEL

Material	Tensile Strength Min.	Rockwell Hardness	Grade Marking
Low carbon steel (AISI 1008 – 1022)	60,000 psi	B70 to B100	None

2.2 STAINLESS STEEL – ASTM F593

Type	Nominal Size	Condition	Tensile Strength (ksi)	Yield Strength Min. (ksi)	Rockwell Hardness
18-8 (304)	1/4 to 5/8 incl.	CW1	100 to 150	65	B95 to C32

1 ksi = 1,000 psi. ASTM F593 covers 1/4" and larger; #2 – #12 are cold-worked 18-8 (304) stainless and may be slightly magnetic.

3.0 Surface Finish

Properties	Zinc Plated Steel	18-8 Stainless Steel
Type	Zinc, trivalent (Cr+3) clear • RoHS compliant	Plain, passivated
Color	Clear / bright silver-blue	Natural stainless
Minimum Coating Thickness	0.0001" / 3 microns	–
Specification	ASTM F1941/F1941M Fe/Zn 3AN	Passivated per ASTM A967 or A380

Disclaimer: The above is a compilation of data from various industry standards. The Nutty Company, Inc. has made every effort to present the data accurately. However, The Nutty Company, Inc. cannot be held liable for any claim traceable to any errors, typographical or otherwise, contained herein.



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