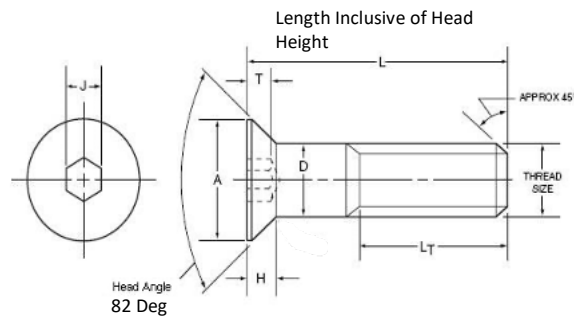


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Hexagon Socket Flat Countersunk Head Cap Screws Inch Series

1.0 Dimensions: ASME B18.3.



Nominal Size or Basic Product Diameter	D		A		H	J	T
	Body Diameter		Head Diameter		Head Height	Key Size	Key Engagement
	Max	Min	Max	Min	Ref	Nom	Min
# 0	0.0600	0.0568	0.138	0.117	0.044	0.035	0.025
# 1	0.0730	0.0695	0.168	0.143	0.054	0.050	0.031
# 2	0.0860	0.0822	0.197	0.168	0.064	0.050	0.038
# 3	0.0990	0.0949	0.226	0.193	0.073	1/16	0.044
# 4	0.1120	0.1075	0.255	0.218	0.083	1/16	0.055
# 5	0.1250	0.1202	0.281	0.240	0.090	5/64	0.061
# 6	0.1380	0.1329	0.307	0.263	0.097	5/64	0.066
# 8	0.1640	0.1585	0.359	0.311	0.112	3/32	0.076
# 10	0.1900	0.1840	0.411	0.359	0.127	1/8	0.087
1/4	0.2500	0.2435	0.531	0.480	0.161	5/32	0.111
5/16	0.3125	0.3053	0.656	0.600	0.198	3/16	0.135
3/8	0.3750	0.3678	0.781	0.720	0.234	7/32	0.159
7/16	0.4375	0.4294	0.844	0.781	0.234	1/4	0.159
1/2	0.5000	0.4919	0.938	0.872	0.251	5/16	0.172
5/8	0.6250	0.6163	1.188	1.112	0.324	3/8	0.220
3/4	0.7500	0.7406	1.438	1.355	0.396	1/2	0.220
7/8	0.8750	0.8647	1.688	1.604	0.468	9/16	0.248
1	1.0000	0.9886	1.938	1.841	0.540	5/8	0.297
1-1/8	1.1250	1.1086	2.188	2.079	0.611	3/4	0.325
1-1/4	1.2500	1.2336	2.438	2.316	0.683	7/8	0.358
1-3/8	1.3750	1.3568	2.688	2.553	0.755	7/8	0.402
1-1/2	1.5000	1.4818	2.938	2.791	0.827	1	0.435

Notes: Thread Class of Fit: Sizes up to 1 inch : 3A. Above 1 inch : 2A. Zinc plated screws above 1 inch must meet 3A GO & 2A NO GO thread ring gage condition.

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



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Hexagon Socket Flat Countersunk Head Cap Screws Inch Series

2.0 Mechanical Properties (For Full Size Screw Testing):

2.1 Steel – ASTM F835

Nominal Size	Tensile Strength Minimum	Rockwell Hardness HRC
1/2 inch and smaller	145,000 PSI	39-44
Over 1/2 inch	135,000 PSI	37-44

2.2 Stainless Steel – ASTM F879

Classification		Tensile Strength Minimum	Hardness Minimum HRA
Types	Condition		
304 (18-8) & 316	CW	80,000 PSI	50
	CW1	102,000 PSI	59

Screws will be passivated.

3.0 Surface Finish: Thermal Black Oxide / Zinc. Zinc & Mechanical zinc details given in table below.

Properties	Zinc Clear	Mechanical Zinc
Type	Trivalent (Cr+3)	Trivalent (Cr+3)
Color	Clear	Clear
Minimum Coating Thickness	0.0001" / 3 Microns	0.0003 " / 8 Microns
Specification	ASTM F1941 / F1941M. Fe/Zn 3AN.	ASTM B695. Class 8. Type II.