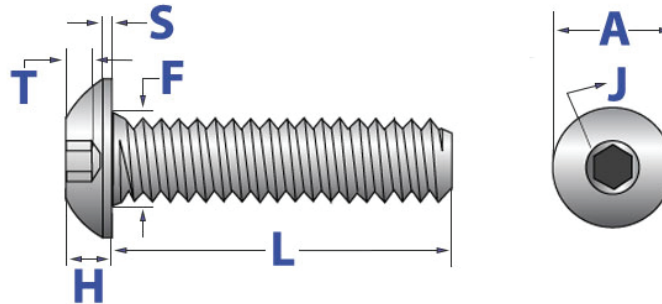


PRODUCT DATA SHEET

Hexagon Socket Button Head Cap Screws

1.0 Dimensions: ASME B18.3



Nominal Size or Basic Product Diameter	A		H		S	J	T
	Head Diameter		Head Height		Head Side Height	Key Size	Key Engagement
	Max	Min	Max	Min	Ref	Nom	Min
# 0	0.114	0.104	0.032	0.026	0.010	0.035	0.020
# 1	0.139	0.129	0.039	0.033	0.010	0.050	0.028
# 2	0.164	0.154	0.046	0.038	0.010	0.050	0.028
# 3	0.188	0.176	0.052	0.044	0.010	1/16	0.035
# 4	0.213	0.201	0.059	0.051	0.015	1/16	0.035
# 5	0.238	0.226	0.066	0.058	0.015	5/64	0.044
# 6	0.262	0.250	0.073	0.063	0.015	5/64	0.044
# 8	0.312	0.298	0.087	0.077	0.015	3/32	0.052
# 10	0.361	0.347	0.101	0.091	0.020	1/8	0.070
1/4	0.437	0.419	0.132	0.122	0.031	5/32	0.087
5/16	0.547	0.527	0.166	0.152	0.031	3/16	0.105
3/8	0.656	0.636	0.199	0.185	0.031	7/32	0.122
1/2	0.875	0.851	0.265	0.245	0.046	5/16	0.175
5/8	1.000	0.970	0.331	0.311	0.062	3/8	0.210

Notes: Screws will be fully threaded. Thread Class of Fit: 3A

PRODUCT DATA SHEET

Hexagon Socket Button Head Cap Screws

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

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