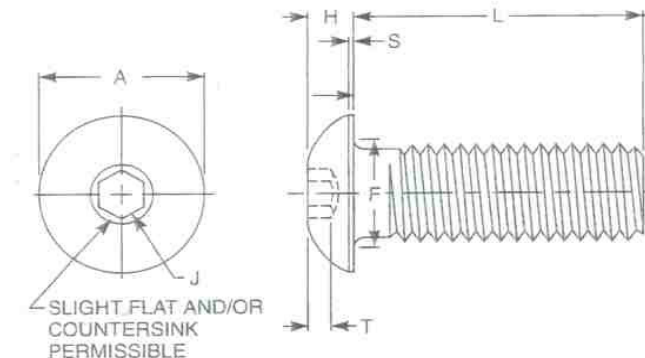




Socket Button Head Cap Screws, Alloy, Black Oxide, Manufactured in the USA

The information below lists the required dimensional, chemical and physical characteristics of the products in this purchase order. If the order received does not meet these requirements, it may result in a supplier corrective action request, which could jeopardize your status as an approved vendor. Unless otherwise specified, all referenced consensus standards must be adhered to in their entirety.



Nominal Size or Basic Screw Diameter	A		H		S	J		T	F		L	
	Head Diameter		Head Height		Head Side Height	Hexagon Socket Size		Key Engagement	Fillet Transition Diameter		Maximum Standard Length	
	Max.	Min.	Max.	Min.	Ref.	Nom.		Min.	Max.	Min.	Nom.	
2	0.0860	0.164	0.154	0.046	0.038	0.010	...	0.050	0.028	0.106	0.096	0.50
4	0.1120	0.213	0.201	0.059	0.051	0.015	1/16	0.062	0.035	0.132	0.122	0.50
5	0.1250	0.238	0.226	0.066	0.058	0.015	5/64	0.078	0.044	0.145	0.135	0.50
6	0.1380	0.262	0.250	0.073	0.063	0.015	5/64	0.078	0.044	0.158	0.148	0.63
8	0.1640	0.312	0.298	0.087	0.077	0.015	3/32	0.094	0.052	0.194	0.184	0.75
10	0.1900	0.361	0.347	0.101	0.091	0.020	1/8	0.125	0.070	0.220	0.210	1.00
1/4	0.2500	0.437	0.419	0.132	0.122	0.031	5/32	0.156	0.087	0.290	0.280	1.00
5/16	0.3125	0.547	0.527	0.166	0.152	0.031	3/16	0.188	0.105	0.353	0.343	1.00
3/8	0.3750	0.656	0.636	0.199	0.185	0.031	7/32	0.219	0.122	0.415	0.405	1.25
1/2	0.5000	0.875	0.851	0.265	0.245	0.046	5/16	0.312	0.175	0.560	0.540	2.00
5/8	0.6250	1.000	0.970	0.331	0.311	0.062	3/8	0.375	0.210	0.685	0.665	2.00

Specification Requirements:

- Dimensions: ASME B18.3
- Material & Mechanical: ASTM F835
- Hardness:
 - ≤ 1/2" diameter is HRC 39 to 44.
 - > 1/2" diameter is HRC 37 to 44.
- Thread requirements: ASME B1.1, Class 3A UNRC and UNRF.
- Product Marking: Manufacturer's ID on sizes larger than #10
- Finish: Black Oxide (Thermal or Chemical)
- Material Test Reports: The MTR must have documented lot traceability, including full chemical and mechanical figures, to the specification(s) above.