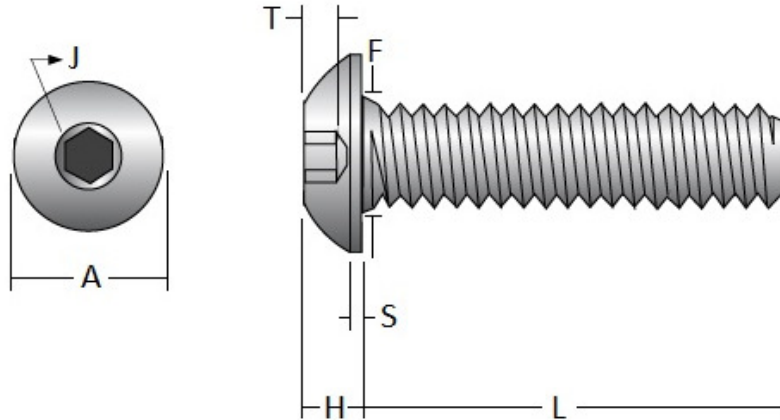




Button Head Socket Cap Screws, Alloy, Black Oxide, Manufactured in the USA

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 39 to 44 HRC.
 - > 1/2" diameter is 37 to 44 HRC.
- 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)
- Manufacturer: Made in the USA

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- **Material Test Reports:** The MTR must have documented lot traceability, dimensional results, full chemical test results and full mechanical test results to the specification(s) above. In addition, the MTR shall be in full compliance with Fastenal's MTR Requirements.
- **Quality Assurance Provisions:** Category 3 of ASME B18.18