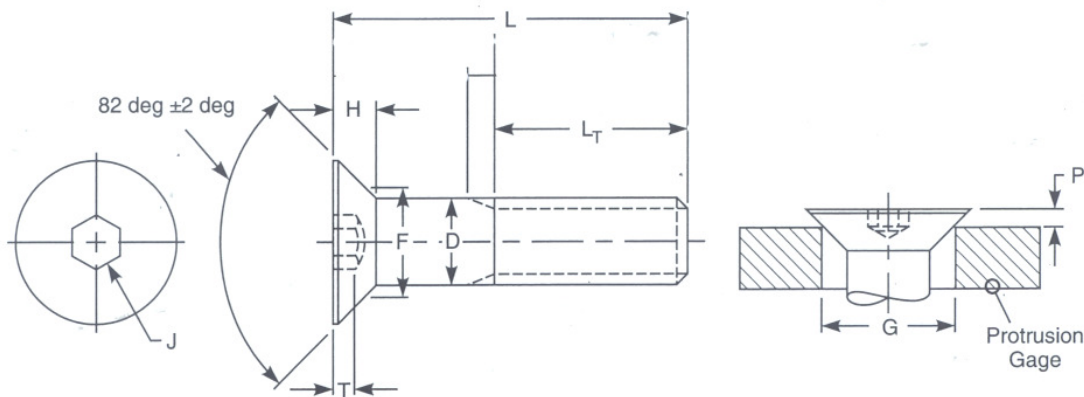




Socket, Flat Head Cap Screws, Alloy, Black Oxide, Manufactured in the USA

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 Dia.	D		A		H	G		P		M	J		T	F	
	Body Diameter		Head Diameter			Head Height Ref.	Protrusion Gage Dia.		Protrusion		Spline Socket Size	Hexagon Socket Size			Key Engagement Min.
	Max.	Min.	Theo. Sharp Max.	Abs. Min.	Max.		Min.	Max.	Min.	Nom.					
4	0.1120	0.1120	0.1075	0.255	0.218	0.083	0.172	0.171	0.049	0.036	0.072	1/16	0.062	0.055	0.136
5	0.1250	0.1250	0.1202	0.281	0.240	0.090	0.196	0.195	0.051	0.037	0.096	5/64	0.078	0.061	0.153
6	0.1380	0.1380	0.1329	0.307	0.263	0.097	0.220	0.219	0.052	0.037	0.096	5/64	0.078	0.066	0.168
8	0.1640	0.1640	0.1585	0.359	0.311	0.112	0.267	0.266	0.055	0.039	0.111	3/32	0.094	0.076	0.194
10	0.1900	0.1900	0.1840	0.411	0.359	0.127	0.313	0.312	0.058	0.041	0.145	1/8	0.125	0.087	0.220
1/4	0.2500	0.2500	0.2435	0.531	0.480	0.161	0.424	0.423	0.064	0.043	0.183	5/32	0.156	0.111	0.280
5/16	0.3125	0.3125	0.3053	0.656	0.600	0.198	0.539	0.538	0.070	0.047	0.216	3/16	0.188	0.135	0.343
3/8	0.3750	0.3750	0.3678	0.781	0.720	0.234	0.653	0.652	0.076	0.050	0.251	7/32	0.219	0.159	0.405
7/16	0.4375	0.4375	0.4294	0.844	0.781	0.234	0.690	0.689	0.092	0.063	0.291	1/4	0.250	0.159	0.468
1/2	0.5000	0.5000	0.4919	0.938	0.872	0.251	0.739	0.738	0.119	0.087	0.372	5/16	0.312	0.172	0.530
5/8	0.6250	0.6250	0.6163	1.188	1.112	0.324	0.962	0.961	0.135	0.096	0.454	3/8	0.375	0.220	0.655
3/4	0.7500	0.7500	0.7406	1.438	1.355	0.396	1.186	1.185	0.150	0.105	0.454	1/2	0.500	0.220	0.780

Specification Requirements:

- Dimensions: ASME B18.3
- Material & Mechanical Properties: 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 (0.060" to 1" inclusive)
- Product Marking: Manufacturer's ID on sizes larger than #10
- Finish: Thermal or Chemical Black Oxide
- Material Test Reports: The MTR must have documented lot traceability, including full chemical and mechanical figures, to the specification(s) above.