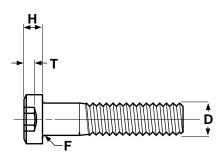
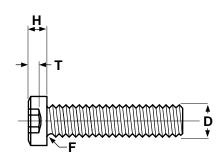
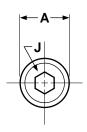
Low Head Cap Screws







LOW HEAD SOCKET CAP SCREWS - ALLOY STEEL Blue Devil									Blue Devil®			
Nominal Size	D	А		н		J	Т	F		Tensile Strength Pounds Min.		Tightening Torque Inch Pounds
	Basic Screw Diameter	Head Diameter		Head Height		Hex Socket	Key Engagement	Fillet				
		Max	Min	Max	Min	Size	Min	Max	Min	UNRC	UNRF	
8	0.1640	.270	.265	.082	.079	.0781	.060	.012	.007	2,310	2,440	19.4
10	0.1900	.312	.307	.095	.092	.0938	.072	.014	.009	2,890	3,300	33.5
1/4	0.2500	.375	.369	.125	.121	.1250	.094	.014	.009	5,250	6,000	77.9
5/16	0.3125	.437	.431	.156	.152	.1562	.120	.017	.012	8,650	9,550	156.0
3/8	0.3750	.562	.556	.187	.182	.1875	.145	.020	.015	12,800	14,450	273.0
1/2	0.5000	.750	.743	.250	.244	.2500	.184	.026	.020	23,400	26,350	615.0

	Nominal Screw Size	Nominal Screw Length				
Tolerance on Length	Noniniai Sciew Size	Up to 1 in., Incl.	Over 1 in. to 2-1/2 in., Incl.			
Tolerance on Length	0 thru 3/8	-0.03	-0.04			
	1/2	-0.03	-0.06			

Description	Similar to a standard alloy socket cap screw except the head height is 50% of the standard's and the socket size is smaller. The low-head style is supplied only in plain steel.				
Applications/ Advantages	Used in applications where the limited clearance would not accommodate the head height of a standard socket cap screw. Also used in counterbored holes of material too thin for a regular socket cap screw. However, because of their design, they cannot withstand the same preloads as a standard socket head.				
Material	Cap screws shall be made from an alloy steel which conforms to the following chemical composition requirements (per product analysis) <i>Carbon:</i> 0.31% minimum; <i>Phosphorus:</i> 0.040% maximum; <i>Sulfur:</i> 0.045% maximum. Also, one or more of the following elements shall be present in sufficient quantity to meet the performance requirements listed below: chromium, nickel, molybdenum or vanadium.				
Heat Treatment	Cap screws shall be heat treated by oil quenching from above the transformation temperature and then tempered at a temperature not lower than 650°F.				
Hardness	Rockwell C38 minimum				
Tensile Strength	170,000 psi. minimum				
Yield Strength	150,000 psi. minimum				
Elongation	10% minimum (applies to machined specimens of length at least 4D where D equals the nominal diameter of the screw)				
Reduction of Area	33% minimum (applies to machined specimens)				

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