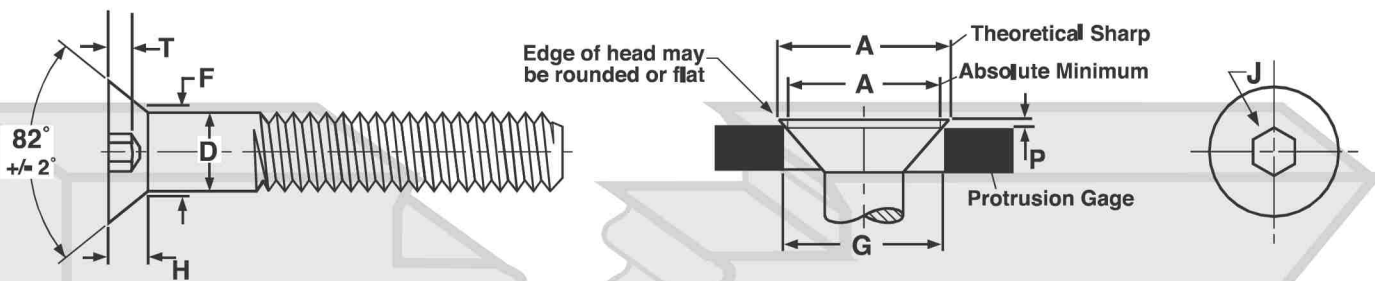


FICHA TECNICA

PERNOS PARKER CABEZA PLANA



10.9



SOCKET FLAT HEAD CAP SCREWS - ALLOY STEEL

ASME B18.3-2012,
Blue Devil®

Nominal Size	D		A		H	G		P		J	T	F	Tensile Strength, Lbs.	Single Shear Strength of Body lbs., Min	Recommended Seating Torques, in./lbs.	
	Max	Min	Theoretical Sharp Max	Abs. Min	Ref	Max	Min	Max	Min	Nom	Min	Max			Min	Coarse Thread
	4	0.1120	0.1075	0.255	0.218	0.083	0.172	0.171	0.057	0.036	1/16	0.055	0.136	880	950	8.
5	0.1250	0.1202	0.281	0.240	0.090	0.196	0.195	0.059	0.037	5/64	0.061	0.153	1150	1,150	12.	13.
6	0.1380	0.1329	0.307	0.263	0.097	0.220	0.219	0.060	0.037	5/64	0.066	0.168	1320	1,400	15.	17.
8	0.1640	0.1585	0.359	0.311	0.112	0.267	0.266	0.063	0.039	3/32	0.076	0.194	2030	2,000	30.	31.
10	0.1900	0.1840	0.411	0.359	0.127	0.313	0.312	0.066	0.041	1/8	0.087	0.220	2540	2,700	40.	45.
1/4	0.2500	0.2435	0.531	0.480	0.161	0.424	0.423	0.072	0.043	5/32	0.111	0.280	4610	4,700	100.	110.
5/16	0.3125	0.3053	0.656	0.600	0.198	0.539	0.538	0.078	0.047	3/16	0.135	0.343	7600	7,360	200.	220.
3/8	0.3750	0.3678	0.781	0.720	0.234	0.653	0.652	0.088	0.050	7/32	0.159	0.405	11,200	10,600	350.	400.
7/16	0.4375	0.4294	0.844	0.781	0.234	0.690	0.689	0.104	0.063	1/4	0.159	0.468	15,400	14,400	560.	625.
1/2	0.5000	0.4919	0.938	0.872	0.251	0.739	0.738	0.131	0.087	5/16	0.172	0.530	20,600	18,850	850.	1,000.
5/8	0.6250	0.6163	1.188	1.112	0.324	0.962	0.961	0.146	0.096	3/8	0.220	0.655	30,500	29,450	1,700.	1,900.
3/4	0.7500	0.7406	1.438	1.355	0.396	1.186	1.185	0.170	0.105	1/2	0.220	0.780	45,100	42,400	3,000	3,200.

Tolerance on Length	Nominal Screw Size	Nominal Screw Length		
		Up to 1 in., Incl.	Over 1 in. to 2-1/2 in., Incl.	Over 2-1/2 in. to 6 in., Incl.
	0 thru 3/8, Inclusive	-0.03	-0.04	-0.06
7/16 thru 3/4, Inclusive	-0.03	-0.06	-0.08	

Description	Similar in design to a socket button head cap screw but with an 82° countersunk flat head.
Applications/Advantages	Used when a flush mounting, high strength screw is required. Commonly used in tools and dies where moving parts pass over the fastened area.
Material	Screws shall be made from an alloy steel which conforms to the following chemical composition requirements (per product analysis)-- Carbon: 0.28 to 0.50%; Phosphorus: 0.040% maximum; Sulfur: 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	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	<i>Thru 1/2" diam.:</i> Rockwell C 39 - 44; <i>Over 1/2" diam.:</i> Rockwell C 37 - 44
Tensile Strength	<i>Thru 1/2" diam.:</i> 145,000 psi. minimum; <i>Over 1/2" diam.:</i> 135,000 psi. minimum
Yield Strength	153,000 psi. minimum (over 1/2" diam.)
Elongation	8% minimum (applies to machined specimens over 1/2" diam., of length at least 4D where D equals the nominal diameter of the screw)"
Reduction of Area	35% minimum (applies to machined specimens over 1/2" diam.)
Finish	Screws are supplied plain.