

SQUARE HEAD SET SCREWS

Dimensions ■ Application Data



Heat treated alloy steel for maximum strength without brittleness or decarburization

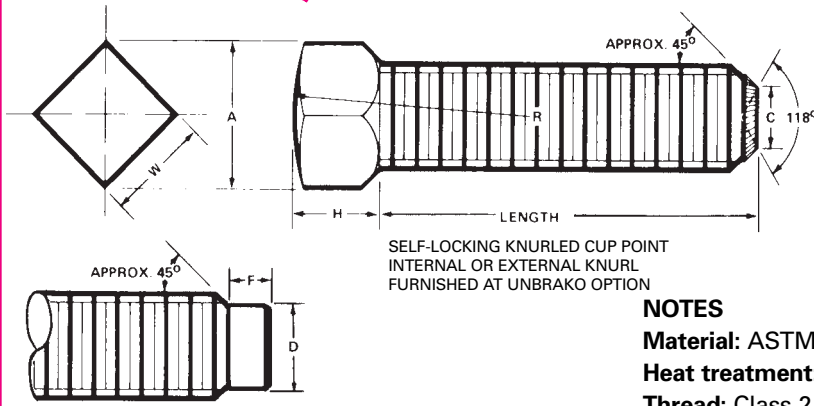
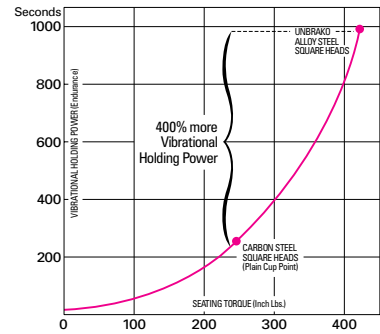
Fully formed threads with continuous grain flow for greater strength and precision fit

Knurled cup point for positive self-locking and vibration resistance

Threads per ANSI B 1.1; Handbook H-28. ANSI B18.6.2

VIBRATIONAL HOLDING POWER vs. SEATING TORQUE Size: 5/16"–18x1/2"

GREATER TIGHTENING TORQUES of UNBRAKO Square Heads, made of high quality alloy steel, provide 50% more axial holding power than ordinary carbon steel square heads. And, because of the increased torque plus the Knurled Cup Point, UNBRAKO Square Head Set Screws deliver up to 400 percent more Vibrational Holding Power.



SELF-LOCKING KNURLED CUP POINT
INTERNAL OR EXTERNAL KNURL
FURNISHED AT UNBRAKO OPTION

NOTES

Material: ASTM A574 – alloy steel

Heat treatment: Rc 45 min., through heat treated

Thread: Class 2A.

These torques are appreciably higher than socket set screw torque values, therefore thread stripping strength of mating material must be considered.

LENGTH TOLERANCE

Diameter	up to 1" incl.	1" to 2" incl.	2" and over
up to 5/8"	-.03	-.06	-.09
3/4" and over	-.06	-.12	-.18

DIMENSIONS and APPLICATION DATA

nom. size	basic screw diameter	threads per inch	A min.	C		D		F ±.010	H		R nom.	W		recom.** torque inch-lbs.
				max.	min.	max.	min.		max.	min.		max.	min.	
#10	.190	24	.247*	.102	.88	.127	.120	.045	.148	.134*	31/64	.188	.180	100
1/4	.250	20	.331	.132	.118	.156	.149	.063	.196	.178	5/8	.250	.241	212
5/16	.312	18	.415	.172	.156	.203	.195	.078	.245	.224	25/32	.312	.302	420
3/8	.375	16	.497	.212	.194	.250	.241	.094	.293	.270	15/16	.375	.362	830
7/16	.437	14	.581	.252	.232	.297	.287	.109	.341	.315	1 3/32	.437	.423	1,350
1/2	.500	13	.665	.291	.270	.344	.334	.125	.389	.361	1 1/4	.500	.484	2,100
9/16	.562	12	.648	.332	.309	.391	.379	.140	.437	.407	1 13/32	.562	.545	2,850
5/8	.652	11	.833	.371	.347	.469	.456	.156	.485	.452	1 9/16	.625	.606	4,250
3/4	.750	10	1.001	.450	.425	.563	.549	.188	.582	.544	1 7/8	.750	.729	7,700
7/8	.875	9	1.170	.530	.502	.656	.642	.219	.678	.635	2 3/16	.875	.852	12,600
1	1.000	8	1.337	.609	.579	.750	.734	.250	.774	.726	2 1/2	1.000	.974	16,600
1 1/8	1.125	7	1.505	.689	.655	.844	.826	.281	.870	.817	2 13/16	1.125	1.096	20,800
1 1/4	1.250	7	1.674	.767	.733	.938	.920	.312	.966	.908	3 1/8	1.250	1.219	25,000
1 3/8	1.375	6	1.843	.848	.808	1.031	1.011	.344	1.063	1.000	3 7/16	1.375	1.342	32,000
1 1/2	1.500	6	2.010	.926	.886	1.125	1.105	.375	1.159	1.091	3 3/4	1.500	1.464	44,000

*#10 may have head dimensions from 1/4 nominal size furnished at Unbrako option. **See Note, page 1.