

SOCKET HEAD CAP SCREW
UNC
STAINLESS STEEL



APPLICATION

Bremick® Socket head cap screws are used in a variety of applications. They provide strong clamping force and can be used in applications with limited space

PRODUCT ATTRIBUTES

Material Class:	304 STAINLESS STEEL 1-CW-F837B
Thread Form:	Class 3A UNRC $\leq 1''$ Class 2A UNRC $1'' < x \leq 1\text{-}1/2''$
Standard:	Complies to ASME B18.3:2012
Mechanical Properties:	Complies to ASTM F837:2020
Chemical Composition:	Complies to ASTM F837:2020

MECHANICAL PROPERTIES

ALLOY MECHANICAL PROPERTY MARKING	TENSILE STRENGTH (ksi)	EXTENSION	HARDNESS	
			VICKERS (HV)	ROCKWELL (HRA)
	MIN	MIN	MIN	MIN
F837B	80	0.4D	150	50

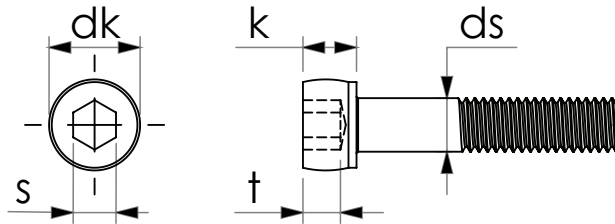
CHEMICAL COMPOSITION (%)

STAINLESS STEEL GRADE	C	Mn	P	S	Si	Ni	Cr
	MAX	MAX	MAX	MAX	MAX	RANGE	RANGE
304	0.08	2.00	0.045	0.030	1.00	8.0-10.5	18.0-20.0

MATERIAL INFORMATION

STAINLESS STEEL 304		
DESCRIPTION	OVERVIEW	CORROSION RESISTANCE
304 is the most commonly used stainless steel. It is an austenitic, offers excellent strength and corrosion resistance.	Bremick® 304 Stainless Steel provides an extreme level of protection and is recommended for wet external application. Bremick® 304 Stainless Steel is an austenitic stainless steel that offers all round performance.	Extreme

DIMENSIONAL DATA (inches)



DIAMETER	TPI	BODY DIAMETER (ds)		HEAD DIAMETER (dk)		HEAD HEIGHT (k)		HEXAGON SOCKET SIZE (s)	KEY ENGAGEMENT (t)
		MIN	MAX	MIN	MAX	MIN	MAX	NOMINAL	MIN
6#	32	0.1329	0.1380	0.216	0.226	0.134	0.138	0.109	0.064
8#	32	0.1585	0.1640	0.257	0.270	0.159	0.164	0.141	0.077
10#	24	0.1840	0.1900	0.278	0.312	0.185	0.190	0.156	0.090
1/4	20	0.2435	0.2500	0.354	0.375	0.244	0.250	0.188	0.120
5/16	18	0.3053	0.3125	0.446	0.469	0.306	0.312	0.250	0.151
3/8	16	0.3678	0.3750	0.550	0.562	0.368	0.375	0.312	0.182
7/16	14	0.4294	0.4375	0.631	0.656	0.430	0.438	0.375	0.213
1/2	13	0.4919	0.5000	0.725	0.750	0.492	0.500	0.375	0.245
5/8	11	0.6163	0.6250	0.914	0.938	0.616	0.625	0.500	0.307
3/4	10	0.7406	0.7500	1.094	1.125	0.740	0.750	0.625	0.370
7/8	9	0.8647	0.8750	1.291	1.312	0.864	0.875	0.750	0.432
1	8	0.9886	1.0000	1.476	1.500	0.988	1.000	0.750	0.495
1-1/8	7	1.1086	1.1250	1.665	1.688	1.111	1.125	0.875	0.557
1-1/4	7	1.2336	1.2500	1.852	1.875	1.236	1.250	0.875	0.620
1-3/8	6	1.3568	1.3750	2.038	2.062	1.360	1.375	1.000	0.682
1-1/2	6	1.4818	1.5000	2.224	2.250	1.485	1.500	1.000	0.745

SOCKET OR SPANNER SIZE (inches)

SCREW DIAMETER	6#	8#	10#	1/4	5/16	3/8	7/16	1/2	5/8	3/4	7/8	1	1-1/8	1-1/4	1-3/8	1-1/2
SOCKET SIZE	7/64	9/64	5/32	3/16	1/4	5/16	3/8	3/8	1/2	5/8	3/4	3/4	7/8	7/8	1	1

THREAD LENGTH (inches)

NOMINAL LENGTH	6#	8#	10#	1/4	5/16	3/8	7/16	1/2	5/8	3/4	7/8	1
0.88												
1												
1.25	0.75	0.87	0.87									
1.5	1	1.12	1.12	1								
1.75	0.75	0.87	0.87	1.25	1.13	1.25						
2	1	1.12	1.12	1	1.38	1.5	1.38					
2.25	0.75	0.87	0.87	1.25	1.13	1.25	1.63	1.5				
2.5	1	1.12	1.12	1	1.38	1.5	1.38	1.75	109			
2.75	0.75	0.87	0.87	1.25	1.13	1.25	1.63	2	2			
3	-	1.12	1.12	1	1.38	1.5	1.38	1.5	2.25			
3.25	-	0.87	0.87	1.25	1.13	1.25	1.63	1.75	1.75	2.25	2.25	
3.5	-	-	1.12	1	1.38	1.5	1.38	2	2	2.5	2.5	2.5
3.75	-	-	0.87	1.25	1.13	1.25	1.63	1.5	2.25	2.75	2.75	2.75
4	-	-	1.12	1	1.38	1.5	1.38	1.75	1.75	2	3	3
4.25	-	-	-	1.25	1.13	1.25	1.63	2	2	2.25	2.25	3.25
4.5	-	-	-	1	1.38	1.5	1.38	1.5	2.25	2.5	2.5	2.5
4.75	-	-	-	1.25	1.13	1.25	1.63	1.75	1.75	2.75	2.75	2.75
5	-	-	-	1	1.38	1.5	1.38	2	2	2	3	3
5.25	-	-	-	-	1.13	1.25	1.63	1.5	2.25	2.25	2.25	3.25
5.5	-	-	-	-	1.38	1.5	1.38	1.75	1.75	2.5	2.5	2.5
5.75	-	-	-	-	1.13	1.25	1.63	2	2	2.75	2.75	2.75
6	-	-	-	-	1.38	1.5	1.38	1.5	2.25	2	3	3
6.25	-	-	-	-	1.13	1.25	1.63	1.75	1.75	2.25	2.25	3.25
6.5	-	-	-	-	-	1.5	1.38	2	2	2.5	2.5	2.5
6.75	-	-	-	-	-	1.25	1.63	1.5	2.25	2.75	2.75	2.75
7	-	-	-	-	-	1.5	1.38	1.75	1.75	2	3	3
7.25	-	-	-	-	-	1.25	1.63	2	2	2.25	2.25	3.25
7.5	-	-	-	-	-	1.5	1.38	1.5	2.25	2.5	2.5	2.5
7.75	-	-	-	-	-	-	1.63	1.75	1.75	2.75	2.75	2.75
8	-	-	-	-	-	-	1.38	2	2.25	2	3	3
8.5	-	-	-	-	-	-	1.38	1.5	1.75	2.5	2.5	2.5
9	-	-	-	-	-	-	1.38	2	2.25	2	3	3
9.5	-	-	-	-	-	-	-	1.5	1.75	2.5	2.5	2.5
10	-	-	-	-	-	-	-	2	2.25	2	3	3
11	-	-	-	-	-	-	-	-	1.75	2	3	3
12	-	-	-	-	-	-	-	-	1.75	2	3	3
13	-	-	-	-	-	-	-	-	-	2	3	3
14	-	-	-	-	-	-	-	-	-	2	3	3
15	-	-	-	-	-	-	-	-	-	2	3	3
16	-	-	-	-	-	-	-	-	-	-	3	3
17	-	-	-	-	-	-	-	-	-	-	3	3
18	-	-	-	-	-	-	-	-	-	-	3	3
19	-	-	-	-	-	-	-	-	-	-	-	3
20	-	-	-	-	-	-	-	-	-	-	-	3

**ALL SIZES ABOVE THE STEPPED LINE
ARE FULLY THREADED**

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