

SOCKET HEAD CAP SCREW

A4-70 METRIC

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:	Stainless Steel A4-70
Thread Form:	Metric 6g
Standard:	Complies to DIN 912:1983
Mechanical Properties:	Complies to ISO 3506-1:2020
Chemical Composition:	Complies to ISO 3506-1:2020

HEAD MARKING

Manufacturer Mark

Property Class

In some cases, the Bremick head mark will be replaced by the mark of the original manufacturer

MECHANICAL PROPERTIES

PROPERTIES	TENSILE STRENGTH (MPa)	STRESS AT 0.2% NON-PROPORTIONAL ELONGATION (MPa)	ELONGATION AFTER FRACTURE
	MIN	MIN	MIN
CLASS 70	700	450	0.4d

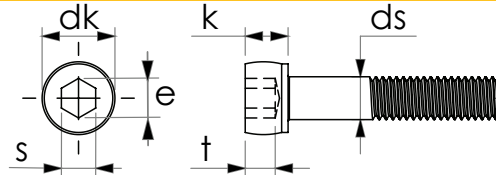
CHEMICAL COMPOSITION (%)

STAINLESS STEEL GRADE	C	Si	Mn	P	S	Cr	Mo	Ni	Cu
	MAX	MAX	MAX	MAX	MAX	RANGE	RANGE	RANGE	MAX
A4	0.08	1.00	2.00	0.045	0.030	16.0-18.5	2.00-3.00	10.0-15.0	4.0

MATERIAL INFORMATION

STAINLESS STEEL 316		
DESCRIPTION	OVERVIEW	CORROSION RESISTANCE
316 is a Marine Grade SS – It contains 2-3% Molybdenum which provides highest possible corrosion protection than 304 Stainless steel.	Bremick® 316 Stainless Steel provides the ultimate level of protection and is recommended for external application and marine environments.	Ultimate

DIMENSIONAL DATA (mm)



DIAMETER	PITCH (mm)	SHAFT DIAMETER (ds)		HEAD DIAMETER (dk)		HEAD HEIGHT (k)		HEXAGON SOCKET SIZE ACROSS FLATS (s)		HEXAGON SOCKET SIZE ACROSS CORNERS (e)	KEY ENGAGEMENT (t)
		MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MIN
M2	0.40	1.86	2.00	3.62	3.98	1.86	2.00	1.520	1.560	1.73	1.00
M2.5	0.45	2.36	2.50	4.32	4.68	2.36	2.50	2.020	2.060	2.30	1.10
M3	0.50	2.86	3.00	5.32	5.68	2.86	3.00	2.520	2.580	2.87	1.30
M4	0.70	3.82	4.00	6.78	7.22	3.82	4.00	3.020	3.080	3.44	2.00
M5	0.80	4.82	5.00	8.28	8.72	4.82	5.00	4.020	4.095	4.58	2.50
M6	1.00	5.82	6.00	9.78	10.22	5.70	6.00	5.020	5.140	5.72	3.00
M8	1.25	7.78	8.00	12.73	13.27	7.64	8.00	6.020	6.140	6.86	4.00
M10	1.50	9.78	10.00	15.73	16.27	9.64	10.00	8.025	8.175	9.15	5.00
M12	1.75	11.73	12.00	17.73	18.27	11.57	12.00	10.025	10.175	11.43	6.00
M14	2.00	13.73	14.00	20.67	21.33	13.57	14.00	12.032	12.212	13.72	7.00
M16	2.00	15.73	16.00	23.67	24.33	15.57	16.00	14.032	14.212	16.00	8.00
M18	2.50	17.73	18.00	26.67	27.33	17.57	18.00	14.032	14.212	16.00	9.00
M20	2.50	19.67	20.00	29.67	30.33	19.48	20.00	17.050	17.230	19.44	10.00
M22	2.50	21.67	22.00	32.61	33.39	21.48	22.00	17.050	17.230	19.44	11.00
M24	3.00	23.67	24.00	35.61	36.39	23.48	24.00	19.065	19.275	21.73	12.00
M27	3.00	26.67	27.00	39.61	40.39	26.48	27.00	19.065	19.275	21.73	13.50
M30	3.50	29.67	30.00	44.61	45.39	29.48	30.00	22.065	22.275	25.15	15.50
M33	3.50	32.61	33.00	49.61	50.39	32.38	33.00	24.065	24.275	27.43	18.00
M36	4.00	35.61	36.00	53.54	54.46	35.38	36.00	27.065	27.275	30.85	19.00
M42	4.50	41.61	42.00	62.54	63.46	41.38	42.00	32.080	32.330	36.57	24.00
M48	5.00	47.61	48.00	71.54	72.46	47.38	48.00	36.080	36.330	41.13	28.00

SOCKET OR SPANNER SIZE (mm)

SCREW DIAMETER	M2	M2.5	M3	M4	M5	M6	M8	M10	M12	M14	M16	M18	M20	M22	M24	M27	M30	M33	M36	M42	M48
SOCKET SIZE	1.5	2	2.5	3	4	5	6	8	10	12	14	14	17	17	19	19	22	24	27	32	36

THREAD LENGTH (mm)

NOMINAL LENGTH	M2	M2.5	M3	M4	M5	M6	M8	M10	M12	M14	M16	M18	M20	M22	M24	M27	M30	M33	M36	M42	M48
10																					
12																					
16																					
20																					
25			18																		
30	-	-	18	20	22																
35	-	-	18	20	22	24															
40	-	-	18	20	22	24	28														
45	-	-	18	20	22	24	28	32													
50	-	-	18	20	22	24	28	32	36												
55	-	-	-	20	22	24	28	32	36	40											
60	-	-	-	20	22	24	28	32	36	40	44										
65	-	-	-	20	22	24	28	32	36	40	44	48									
70	-	-	-	20	22	24	28	32	36	40	44	48	52	56							
80	-	-	-	20	22	24	28	32	36	40	44	48	52	56	60						
90	-	-	-	-	22	24	28	32	36	40	44	48	52	56	60	66					
100	-	-	-	-	22	24	28	32	36	40	44	48	52	56	60	66	72	78			
120	-	-	-	-	22	24	28	32	36	40	44	48	52	56	60	66	72	78	84		
130	-	-	-	-	22	-	28	32	36	40	44	48	52	56	60	66	72	78	84	96	
140	-	-	-	-	-	-	28	32	36	40	44	48	52	56	60	66	72	78	84	96	
150	-	-	-	-	-	-	28	32	36	40	44	48	52	56	60	66	72	78	84	96	
160	-	-	-	-	-	-	-	32	36	-	44	48	52	56	60	66	72	78	84	96	108
180	-	-	-	-	-	-	-	32	36	-	44	48	52	56	60	66	72	78	84	96	108
200	-	-	-	-	-	-	-	32	36	-	44	48	52	56	60	66	72	78	84	96	108
220	-	-	-	-	-	-	-	-	-	-	48	-	-	60	-	72	78	84	96	108	
240	-	-	-	-	-	-	-	-	-	-	48	-	-	60	-	72	78	84	96	108	
260	-	-	-	-	-	-	-	-	-	-	48	-	-	60	-	72	78	84	96	108	
280	-	-	-	-	-	-	-	-	-	-	-	-	-	60	-	72	78	84	96	108	
300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	72	78	84	96	108	

ALL SIZES ABOVE THE STEPPED LINE ARE FULLY THREADED

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