

SOCKET LOW HEAD CAP SCREW

CLASS 8.8 METRIC



PLAIN

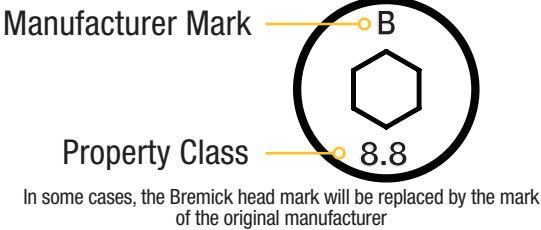
APPLICATION

Bremick® Low head socket cap screws are high strength fasteners manufactured to precision tolerances with a head height approximately half that of a socket head cap screw. As such these fasteners should be used in light duty applications where reduced head height clearance is required.

PRODUCT ATTRIBUTES

Material Class:	Carbon Steel Class 8.8
Thread Form:	Metric 6g
Finish:	Plain/Black/Natural
Standard:	Complies to DIN 7984:2022
Mechanical Properties:	Complies to ISO 898.1:2013
Chemical Composition:	Complies to ISO 898.1:2013

HEAD MARKING



MECHANICAL PROPERTIES

PROPERTIES	TENSILE	STRESS UNDER	HARDNESS					
	STRENGTH (MPa)	PROOF LOAD (MPa)	VICKERS (HV)		BRINELL (HBW)		ROCKWELL (HRC)	
	MIN	NOM.	MIN	MAX	MIN	MAX	MIN	MAX
CLASS 8.8 ≤ M16	800	580	250	320	245	316	22	32
CLASS 8.8 >M16	830	600	255	335	250	331	23	34

CHEMICAL COMPOSITION (%)

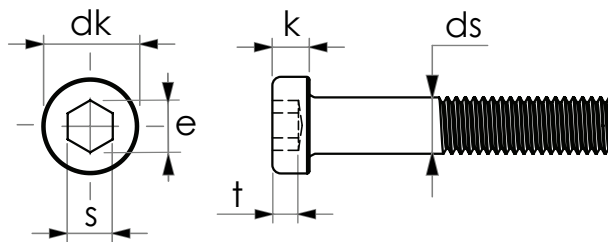
MATERIAL	C		P	S	B	TEMPERING TEMPERATURE °C
	MIN	MAX	MAX	MAX	MAX	MIN
CARBON STEEL	0.25	0.55	0.025	0.025	0.003	425

FINISH INFORMATION

PLAIN / BLACK / NATURAL

DESCRIPTION	OVERVIEW	CORROSION RESISTANCE
Plain, Black & Natural are all terms referring to the fastener not having a coating applied. The product has a light oil added.	Plain or uncoated fasteners offer no corrosion protection they are supplied lightly oiled to inhibit the rust process prior to installation and help during installation.	—

DIMENSIONAL DATA (mm)



DIAMETER	PITCH (mm)	SHAFT DIAMETER (ds)		HEAD DIAMETER (dk)		HEAD HEIGHT (k)		HEXAGON SOCKET SIZE (s)		HEXAGON SOCKET SIZE ACROSS CORNERS (e)	KEY ENGAGEMENT (t)	
		MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MIN	MAX
M3	0.50	2.86	3	5.32	5.50	1.86	2.00	2.020	2.100	2.30	1.38	1.62
M4	0.70	3.82	4	6.78	7.00	2.66	2.80	2.520	2.600	2.87	2.18	2.42
M5	0.80	4.82	5	8.28	8.50	3.32	3.50	3.020	3.100	3.44	2.58	2.82
M6	1.00	5.82	6	9.78	10.00	3.82	4.00	4.020	4.120	4.58	2.88	3.12
M8	1.25	7.78	8	12.73	13.00	4.82	5.00	5.020	5.140	5.72	3.65	3.95
M10	1.50	9.78	10	15.73	16.00	5.82	6.00	7.025	7.175	8.01	4.35	4.65
M12	1.75	11.73	12	17.73	18.00	6.78	7.00	8.025	8.175	9.15	4.85	5.15
M14	2.00	13.73	14	20.67	21.00	7.78	8.00	10.025	10.175	11.43	5.15	5.45
M16	2.00	15.73	16	23.67	24.00	8.78	9.00	12.032	12.212	13.72	5.35	5.65
M18	2.50	17.73	18	26.67	27.00	9.78	10.00	12.032	12.212	13.72	6.32	6.68
M20	2.50	19.67	20	29.67	30.00	10.73	11.00	14.032	14.212	16.00	7.32	7.68
M22	2.50	21.67	22	32.61	33.00	11.73	12.00	14.032	14.212	16.00	7.82	8.18
M24	3.00	23.67	24	35.61	36.00	12.73	13.00	17.050	17.230	19.44	7.82	8.18

SOCKET OR SPANNER SIZE (mm)

SCREW DIAMETER	M3	M4	M5	M6	M8	M10	M12	M14	M16	M18	M20	M22	M24
SOCKET SIZE	2	2.5	3	4	5	7	8	10	12	12	14	14	17

THREAD LENGTH (mm)

NOMINAL LENGTH	M3	M4	M5	M6	M8	M10	M12	M14	M16	M18	M20	M22	M24
16	12	14											
20	12	14	16	18									
25	12	14	16	18	22								
30	12	14	16	18	22	26							
35	12	14	16	18	22	26	30	34					
40	12	14	16	18	22	26	30	34	38				
45	12	14	16	18	22	26	30	34	38	42			
50	12	14	16	18	22	26	30	34	38	42	46		
55	12	14	16	18	22	26	30	34	38	42	46	50	54
60	12	14	16	18	22	26	30	34	38	42	46	50	54
65	12	14	16	18	22	26	30	34	38	42	46	50	54
70	12	14	16	18	22	26	30	34	38	42	46	50	54
80	12	14	16	18	22	26	30	34	38	42	46	50	54
90	12	14	16	18	22	26	30	34	38	42	46	50	54
100	12	14	16	18	22	26	30	34	38	42	46	50	54
120	12	14	16	18	22	26	30	34	38	42	46	50	54
130	-	-	-	-	28	32	36	40	44	48	52	56	60
140	-	-	-	-	28	32	36	40	44	48	52	56	60
150	-	-	-	-	28	32	36	40	44	48	52	56	60
160	-	-	-	-	28	32	36	40	44	48	52	56	60
180	-	-	-	-	28	32	36	40	44	48	52	56	60
200	-	-	-	-	28	32	36	40	44	48	52	56	60
220	-	-	-	-	-	-	-	-	57	61	65	69	73
240	-	-	-	-	-	-	-	-	57	61	65	69	73
260	-	-	-	-	-	-	-	-	57	61	65	69	73
280	-	-	-	-	-	-	-	-	57	61	65	69	73
300	-	-	-	-	-	-	-	-	57	61	65	69	73

ALL SIZES ABOVE THE STEPPED LINE ARE FULLY THREADED

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Bremick Pty Ltd
Head Office | 88 Dalmeny Avenue, Rosebery 2018
National Distribution Centre | M5/M7 Logistics Park,
Warehouse 4B, 290 Kurrajong Road, Prestons NSW 2170
www.bremick.com.au