

SOCKET HEAD CAP SCREW
CLASS 12.9 METRIC
FINE



BLACK

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: Carbon Steel Class 12.9

Thread Form: Metric 5g6g

Finish: Plain/Black/Natural

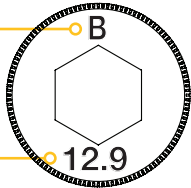
Standard: Complies to DIN 912:1983

Mechanical Properties: Complies to ISO 898.1 2013

Chemical Composition: Complies to ISO 898.1 2013

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	STRESS UNDER	HARDNESS					
	STRENGTH (MPa)	PROOF LOAD (MPa)	VICKERS (HV)		BRINELL (HBW)		ROCKWELL (HRC)	
	MIN	NOM.	MIN	MAX	MIN	MAX	MIN	MAX
CLASS 12.9	1220	970	385	435	380	429	39	44

CHEMICAL COMPOSITION (%)

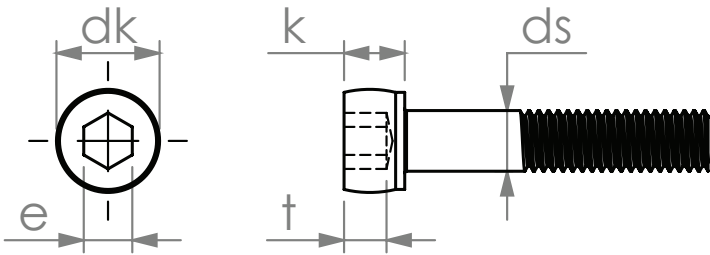
MATERIAL	C		P	S	B	TEMPERING TEMPERATURE °C
	MIN	MAX	MAX	MAX	MAX	MIN
ALLOY STEEL	0.30	0.50	0.025	0.025	0.003	425

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
M8	1.00	7.78	8.00	12.73	13.27	7.64	8.00	6.020	6.140	6.86	4.00	
M10	1.25	9.78	10.00	15.73	16.27	9.64	10.00	8.025	8.175	9.15	5.00	

SOCKET OR SPANNER SIZE (mm)

SCREW DIAMETER	M8	M10
SOCKET SIZE	6	8

THREAD LENGTH (mm)

NOMINAL LENGTH	M8	M10
10	ALL SIZES ABOVE THE STEPPED LINE ARE FULLY THREADED	
12		
16		
20		
25		
30		
35		
40	28	
45	28	32
50	28	32
55	28	32
60	28	32
65	28	32
70	28	32
80	28	32
90	-	32
100	-	-

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