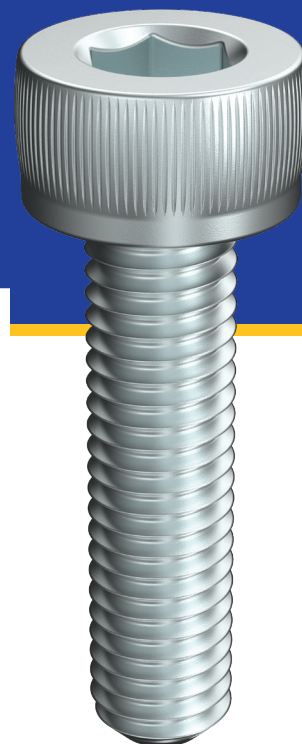


SOCKET HEAD CAP SCREW BSW



PLAIN

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: SCM435 Alloy Steel (Class 12.9 equivalent)

Thread Form: Medium Class

Finish: Plain/Black/Natural

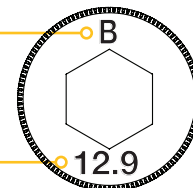
Standard: Complies to BS 2470:1973

Mechanical Properties: Complies to ISO 898.1:2013

Chemical Composition: Complies to JIS G4053:2008

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 UNDER PROOF LOAD (MPa)	HARDNESS					
			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 (%)

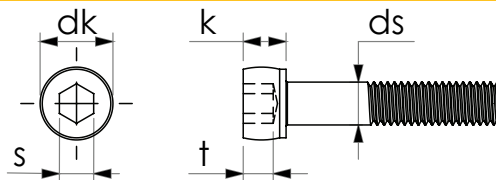
MATERIAL	C		Si		Mn		P	S	Ni	Cr		Mo	
	MIN	MAX	MIN	MAX	MIN	MAX	MAX	MAX	MAX	MIN	MAX	MIN	MAX
SCM435 ALLOY	0.33	0.38	0.015	0.035	0.60	0.90	0.030	0.030	0.25	0.90	1.20	0.15	0.30

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 (Inches)



DIAMETER (Inches)	SHAFT DIAMETER (ds)		HEAD DIAMETER (dk)		HEAD HEIGHT (k)		HEXAGON SOCKET SIZE (s)	KEY ENGAGEMENT (t)
	MIN	MAX	MIN	MAX	MIN	MAX	NOMINAL	MIN
3/16	0.1815	0.1875	0.303	0.312	0.182	0.187	5/32	0.089
1/4	0.2435	0.2500	0.365	0.375	0.244	0.250	3/16	0.120
5/16	0.3053	0.3125	0.425	0.437	0.306	0.312	7/32	0.151
3/8	0.3678	0.3750	0.55	0.562	0.368	0.375	5/16	0.182
7/16	0.4294	0.4375	0.611	0.625	0.430	0.437	5/16	0.213
1/2	0.4919	0.5000	0.735	0.750	0.492	0.500	3/8	0.245
5/8	0.6163	0.6250	0.858	0.875	0.616	0.625	1/2	0.307
3/4	0.7406	0.7500	0.982	1.000	0.740	0.750	9/16	0.370
7/8	0.8647	0.8750	1.105	1.125	0.864	0.875	9/16	0.432
1	0.9886	1.0000	1.291	1.312	0.988	1.000	5/8	0.495

SOCKET OR SPANNER SIZE (Inches)

SCREW DIAMETER	3/16	1/4	5/16	3/8	7/16	1/2	5/8	3/4	7/8	1
SOCKET SIZE	5/32	3/16	7/32	5/16	5/16	3/8	1/2	9/16	9/16	5/8

THREAD LENGTH (Inches)

SCREW DIAMETER	3/16	1/4	5/16	3/8	7/16	1/2	5/8	3/4	7/8	1
THREAD LENGTH (min)	0.875	1	1.125	1.25	1.375	1.5	1.75	2	2.25	2.5

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