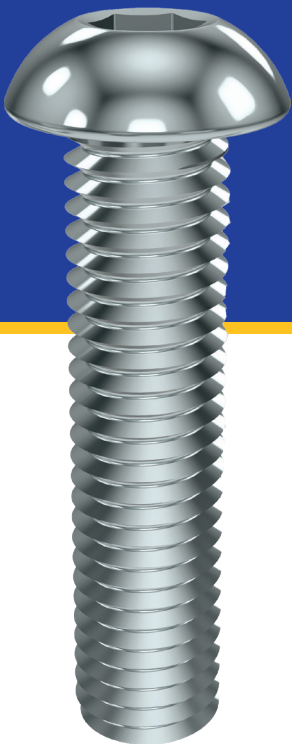


SOCKET BUTTON HEAD
SCREW
METRIC CLASS 10.9



APPLICATION

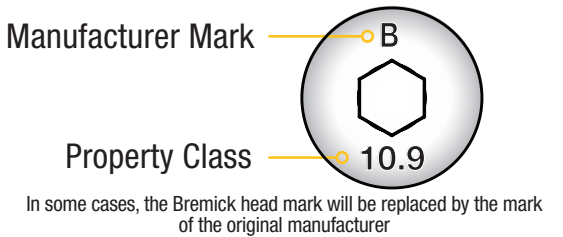
Bremick® Socket Button Head Screws are high-strength fasteners manufactured to precision tolerances for applications requiring a low-profile head, smooth external finish, and reliable tensile performance. They feature a domed head with an internal hex drive, providing controlled torque application and secure fastening.

PRODUCT ATTRIBUTES

Material Class:	Carbon Steel Class 10.9
Thread Form:	Metric 6g
Finish:	Plain/Black/Natural
Standard:	Complies to ISO 7380:2022
Mechanical Properties:	Complies to ISO 898.1:2013
Chemical Composition:	Complies to ISO 898.1:2013

PLAIN

HEAD MARKING



MECHANICAL PROPERTIES

PROPERTIES	TENSILE STRENGTH (MPa)	STRESS UNDER PROOF LOAD (MPa)	HARDNESS					
	MIN	NOM.	VICKERS (HV)		BRINELL (HBW)		ROCKWELL (HRC)	
CLASS 10.9	1040	830	320	380	316	375	32	39

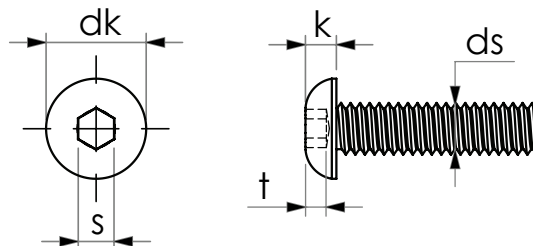
CHEMICAL COMPOSITION (%)

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	3.00	5.40	5.70	1.40	1.65	2.020	2.080	2.30	1.04	1.20
M4	0.70	3.82	4.00	7.24	7.60	1.95	2.20	2.520	2.580	2.87	1.30	1.65
M5	0.80	4.82	5.00	9.14	9.50	2.50	2.75	3.020	3.080	3.44	1.56	2.12
M6	1.00	5.82	6.00	10.07	10.50	3.00	3.30	4.020	4.095	4.58	2.08	2.26
M8	1.25	7.78	8.00	13.57	14.00	4.10	4.40	5.020	5.140	5.72	2.60	3.05
M10	1.50	9.78	10.00	17.07	17.50	5.20	5.50	6.020	6.140	6.86	3.12	3.75
M12	1.75	11.73	12.00	20.48	21.00	6.24	6.60	8.025	8.175	9.15	4.16	4.61
M16	2.00	15.73	16.00	27.48	28.00	8.44	8.80	10.025	10.175	11.43	5.20	6.19

SOCKET OR SPANNER SIZE (mm)

SCREW DIAMETER	M3	M4	M5	M6	M8	M10	M12	M16
SOCKET SIZE	2	2.5	3	4	5	6	8	10

THREAD LENGTH (mm)

NOMINAL LENGTH	M3	M4	M5	M6	M8	M10	M12	M16
6	SCREWS WITH TOO SHORT LENGTH							
8								
10								
12								
16								
20	FULLY THREADED SCREWS							
25								
30								
35								
40								
45	18	20	22	24	28	32	36	48
50	18	20	22	24	28	32	36	48
55		20	22	24	28	32	36	48
60			22	24	28	32	36	48
65				24	28	32	36	48
70					28	32	36	48
80						32	36	48
90							36	48
100								48

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