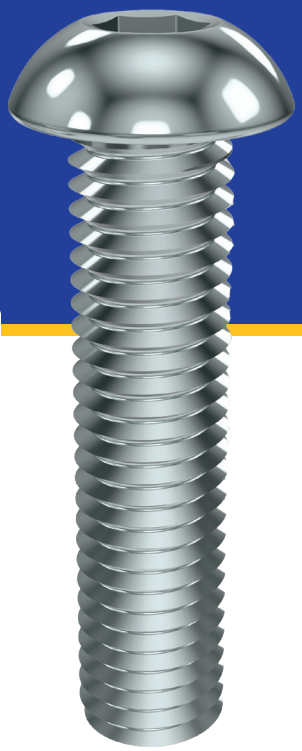
SOCKET BUTTON HEAD SCREW
METRIC CLASS 10.9



ZINC PLATED

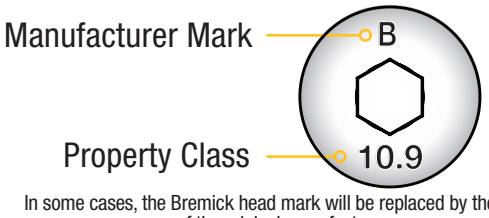
APPLICATION

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:	Zinc Plated
Standard:	Complies to ISO 7380:2022
Mechanical Properties:	Complies to ISO 898.1:2013
Chemical Composition:	Complies to ISO 898.1:2013

HEAD MARKING



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 10.9	1040	830	320	380	316	375	32	39

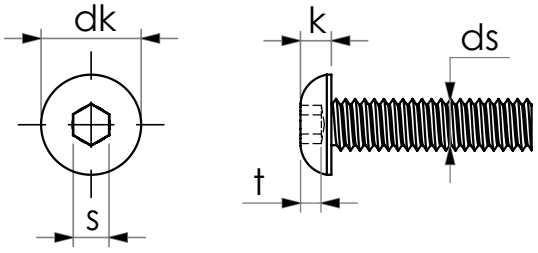
CHEMICAL COMPOSITION (%)

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

ZINC PLATED		
DESCRIPTION	OVERVIEW	CORROSION RESISTANCE
Zinc Plating is a process of depositing a thin layer of zinc onto the surface of a steel object through electroplating. The steel object is then passivated with a transparent conversion layer.	Bremick® Zinc Plated Coating provides a low level of corrosion protection and is recommended for dry internal application. Bremick® Zinc Plating complies with AS1789.	Low.

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								
8								
10								
12								
16								
20								
25	18							
30	18	20	22					
35		20	22	24				
40		20	22	24	28			
45			22	24	28	32		
50			22	24	28	32		
55				24	28	32	36	
60				24	28	32	36	
65					28	32	36	
70					28	32	36	48
80					28	32	36	48
90						32	36	48
100								

SCREWS WITH TOO SHORT LENGTH

FULLY THREADED SCREWS

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