

SOCKET BUTTON HEAD
SCREW A4-70 METRIC
STAINLESS STEEL



STAINLESS
STEEL
316

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.

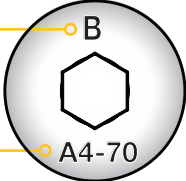
PRODUCT ATTRIBUTES

Material Class:	Stainless Steel A4-70
Thread Form:	Metric 6g
Standard:	Complies to ISO 7380:2022
Mechanical Properties:	Complies to ISO 3506-1:2020
Chemical Composition:	Complies to ISO 3506-1:2020

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 AT 0.2% NON-PROPORTIONAL ELONGATION (MPa)	ELONGATION AFTER FRACTURE
	MIN	MIN	MIN
CLASS 70	700	450	0.4d

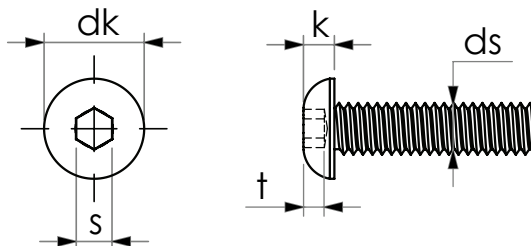
CHEMICAL COMPOSITION (%)

STAINLESS STEEL GRADE	C	Si	Mn	P	S	Cr	Mo	Ni	Cu
	MAX	MAX	MAX	MAX	MAX	RANGE	RANGE	RANGE	MAX
A4	0.08	1.00	2.00	0.045	0.030	16.0-18.5	2.00-3.00	10.0-15.0	4.0

MATERIAL INFORMATION

STAINLESS STEEL 316		
DESCRIPTION	OVERVIEW	CORROSION RESISTANCE
316 is a Marine Grade SS – It contains 2-3% Molybdenum which provides highest possible corrosion protection than 304 Stainless steel.	Bremick® 316 Stainless Steel provides the ultimate level of protection and is recommended for external application and marine environments.	Ultimate

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							
55		20	22	24	28	32	36	48
60			22	24	28	32	36	
65				24	28	32	36	48
70					28	32	36	
80						32	36	48
90							36	48
100								

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