

SOCKET COUNTERSUNK FLAT HEAD
CAP SCREWS A4-70 METRIC
STAINLESS STEEL



STAINLESS
STEEL
316

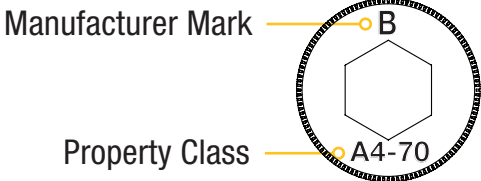
APPLICATION

Bremick® Flat Head (Counter Sunk) Socket Screws are high strength fasteners manufactured to precision tolerances for use in applications where close tolerances and high tensile strength is required. The heads of these fasteners are flat topped, counter sunk with an internal hex drive recess

PRODUCT ATTRIBUTES

Material Class:	Stainless Steel A4-70
Thread Form:	Metric 6g
Standard:	Complies to DIN 7991:1986
Mechanical Properties:	Complies to ISO 3506-1:2020
Chemical Composition:	Complies to ISO 3506-1:2020

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

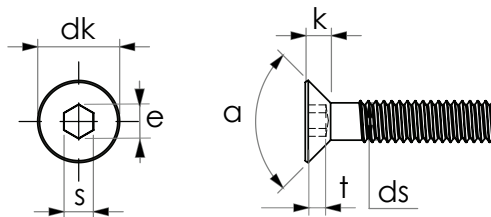
CHEMICAL COMPOSITION (%)

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)	COUNTERSUNK ANGLE (a)	SHAFT DIAMETER (ds)		HEAD DIAMETER (dk)		HEAD HEIGHT (k)	HEXAGON SOCKET SIZE ACROSS FLATS (s)		HEXAGON SOCKET SIZE ACROSS CORNERS (e)	KEY ENGAGEMENT (t)	
		NOM	MIN	MAX	MIN	MAX	MAX	MIN	MAX	MIN	MIN	MAX
M3	0.50	90°-92°	2.86	3.00	5.7	6.00	1.70	2.020	2.100	2.30	0.95	1.20
M4	0.70	90°-92°	3.82	4.00	7.64	8.00	2.30	2.520	2.600	2.87	1.55	1.80
M5	0.80	90°-92°	4.82	5.00	9.64	10.00	2.80	3.020	3.100	3.44	2.05	2.30
M6	1.00	90°-92°	5.82	6.00	11.57	12.00	3.30	4.020	4.120	4.58	2.25	2.50
M8	1.25	90°-92°	7.78	8.00	15.57	16.00	4.40	5.020	5.140	5.72	3.20	3.50
M10	1.50	90°-92°	9.78	10.00	19.48	20.00	5.50	6.020	6.140	6.86	4.10	4.40
M12	1.75	90°-92°	11.73	12.00	23.48	24.00	6.50	8.025	8.175	9.15	4.30	4.60
M14	2.00	90°-92°	13.73	14.00	26.48	27.00	7.00	10.025	10.175	11.43	4.50	4.80
M16	2.00	90°-92°	15.73	16.00	29.48	30.00	7.50	10.025	10.175	11.43	5.00	5.30
M18	2.50	90°-92°	17.73	18.00	32.38	33.00	8.00	12.032	12.212	13.72	5.20	5.50
M20	2.50	90°-92°	19.67	20.00	35.38	36.00	8.50	12.032	12.212	13.72	5.60	5.90
M22	2.50	60°-62°	21.67	22.00	35.38	36.00	13.10	14.032	14.212	16.00	8.44	8.80
M24	3.00	60°-62°	23.67	24.00	38.38	39.00	14.00	14.032	14.212	16.00	9.87	10.30

SOCKET OR SPANNER SIZE (mm)

SCREW DIAMETER	M3	M4	M5	M6	M8	M10	M12	M14	M16	M18	M20	M22	M24
SOCKET SIZE	2	2.5	3	4	5	6	8	10	10	12	12	14	14

THREAD LENGTH (mm)

NOMINAL LENGTH	M3	M4	M5	M6	M8	M10	M12	M14	M16	M18	M20	M22	M24
16	12	14											
20	12	14	16	18									
25	12	14	16	18	22								
30	12	14	16	18	22	26							
35	12	14	16	18	22	26	30	34					
40	12	14	16	18	22	26	30	34	38				
45	12	14	16	18	22	26	30	34	38	42			
50	12	14	16	18	22	26	30	34	38	42	46		
55	12	14	16	18	22	26	30	34	38	42	46	50	54
60	12	14	16	18	22	26	30	34	38	42	46	50	54
65	12	14	16	18	22	26	30	34	38	42	46	50	54
70	12	14	16	18	22	26	30	34	38	42	46	50	54
80	12	14	16	18	22	26	30	34	38	42	46	50	54
90	12	14	16	18	22	26	30	34	38	42	46	50	54
100	12	14	16	18	22	26	30	34	38	42	46	50	54
120	12	14	16	18	22	26	30	34	38	42	46	50	54
130	-	-	-	-	28	32	36	40	44	48	52	56	60
140	-	-	-	-	28	32	36	40	44	48	52	56	60
150	-	-	-	-	28	32	36	40	44	48	52	56	60
160	-	-	-	-	28	32	36	40	44	48	52	56	60
180	-	-	-	-	28	32	36	40	44	48	52	56	60
200	-	-	-	-	28	32	36	40	44	48	52	56	60
220	-	-	-	-	-	-	-	-	57	61	65	69	73
240	-	-	-	-	-	-	-	-	57	61	65	69	73
260	-	-	-	-	-	-	-	-	57	61	65	69	73
280	-	-	-	-	-	-	-	-	57	61	65	69	73
300	-	-	-	-	-	-	-	-	57	61	65	69	73

ALL SIZES ABOVE THE STEPPED LINE ARE FULLY THREADED

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