

CUP HEAD BOLT A4-70
METRIC
STAINLESS STEEL



STAINLESS
STEEL
316

APPLICATION

Bremick® Cup head bolts have a square neck design which prevents the bolt from spinning when tightened. Primarily used in timber applications where a smooth domed head is preferred.

PRODUCT ATTRIBUTES

Material Class:	Stainless Steel A4-70
Thread Form:	8g
Standard:	Complies to DIN 603:2017
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

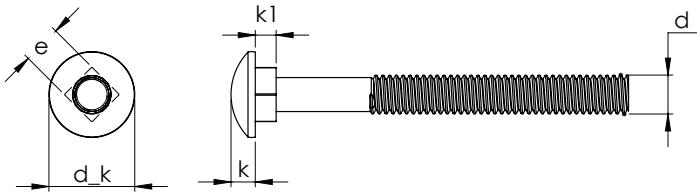
CHEMICAL COMPOSITION (%)

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 (mm)	PITCH	SQUARE NECK ACROSS FLATS (e)		SQUARE NECK LENGTH (k1)		HEAD HEIGHT (k)		MAJOR DIAMETER (d)		HEAD DIAMETER (d_k)	
		MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX
M6	1.00	5.52	6.48	3.00	3.60	3.40	4.60	5.52	6.00	15.45	16.55
M8	1.25	7.42	8.58	4.00	4.80	4.40	5.60	7.42	8.00	19.35	20.65
M10	1.50	9.42	10.58	5.00	5.80	5.40	6.60	9.42	10.00	23.35	24.65
M12	1.75	11.30	12.70	6.00	6.80	7.25	8.75	11.30	12.00	29.35	30.65
M16	2.00	15.30	16.70	8.00	8.90	11.10	12.90	15.30	16.00	37.20	38.80
M20	2.50	19.16	20.84	10.00	10.90	14.10	15.90	19.16	20.00	45.20	46.80

BOLT LENGTH			THREAD LENGTH		
NOMINAL	MIN	MAX	NOMINAL	MIN	MAX
20	18.95	21.05	ALL SIZES ABOVE THE STEPPED LINE ARE FULLY THREADED		
25	23.95	26.05			
30	28.95	31.05			
35	33.75	36.25			
40	38.75	41.25			
45	43.75	46.25			
50	48.75	51.25			
55	53.50	56.50			
60	58.50	61.50			
65	63.50	66.50			
70	68.50	71.50			
75	73.50	76.50			
80	78.50	81.50			
90	87.25	92.75			
100	97.25	102.8			
110	107.3	112.8			
120	117.3	122.8			
130	128.0	132.0			
140	138.0	142.0			
150	148.0	152.0			
160	156.0	164.0	152.4	149.5	155.3
170	166.0	174.0	152.4	149.5	155.3
180	176.0	184.0	152.4	149.5	155.3
190	185.4	194.6	152.4	149.5	155.3
200	195.4	204.6	152.4	149.5	155.3
220	215.4	224.6	152.4	149.5	155.3
240	235.4	244.6	152.4	149.5	155.3
260	254.8	265.2	152.4	149.5	155.3
280	274.8	285.2	152.4	149.5	155.3
300	294.8	305.2	152.4	149.5	155.3
325	319.3	330.7	152.4	149.5	155.3
350	344.3	355.7	152.4	149.5	155.3
375	369.3	380.7	152.4	149.5	155.3
400	393.7	406.3	152.4	149.5	155.3
425	418.7	431.3	152.4	149.5	155.3
450	443.7	456.3	152.4	149.5	155.3

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Bremick Pty Ltd
Head Office | 88 Dalmeny Avenue, Rosebery 2018
National Distribution Centre | M5/M7 Logistics Park,
Warehouse 4B, 290 Kurrajong Road, Prestons NSW 2170
www.bremick.com.au