

HEX BOLT
GRADE 2 BSW



APPLICATION

Bremick® Hex Head BSW Grade 2 bolts are designed for industrial and construction applications where moderate tensile performance is required

PRODUCT ATTRIBUTES

Material Class:	Carbon Steel Grade 2
Thread Form:	Free Class
Finish:	Zinc Plated
Standard:	Complies to AS/NZS 2451:1998
Mechanical Properties:	Complies to AS/NZS 2451:1998
Chemical Composition:	Complies to AS/NZS 2451:1998

HEAD MARKING



In some cases, the Bremick head mark will be replaced by the mark of the original manufacturer e

MECHANICAL PROPERTIES (Full-Size Tests)

PROPERTIES	TENSILE STRENGTH (tonf/in²)	LOWER YIELD STRESS (tonf/in²)	HARDNESS					
			VICKERS (HV)		BRINELL (HB)		ROCKWELL (HRB)	
			MIN	MAX	MIN	MAX	MIN	MAX
GRADE 2	28	16	150	230	141	241	70	100

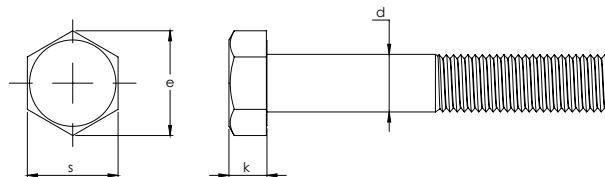
CHEMICAL COMPOSITION (%)

MATERIAL	C	P	S
	MAX	MAX	MAX
CARBON STEEL	0.55	0.05	0.06

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 (inches)



DIAMETER (inches)	TPI	ACROSS FLATS (s)		ACROSS CORNERS (e)	HEAD HEIGHT (k)		SHANK DIAMETER (d)
	BSW	MIN	MAX	MIN	MIN	MAX	MAX
1/4	20	0.435	0.445	0.510	0.166	0.186	0.280
5/16	18	0.515	0.525	0.610	0.208	0.228	0.342
3/8	16	0.585	0.600	0.690	0.250	0.270	0.405
7/16	14	0.695	0.710	0.820	0.292	0.312	0.468
1/2	12	0.800	0.820	0.950	0.333	0.363	0.530
5/8	11	0.985	1.010	1.120	0.417	0.447	0.665
3/4	10	1.175	1.200	1.340	0.500	0.530	0.790
7/8	9	1.270	1.300	1.450	0.583	0.623	0.915
1	8	1.450	1.480	1.650	0.666	0.706	1.040

SOCKET OR SPANNER SIZE (inches)

BOLT DIAMETER	1/4	5/16	3/8	7/16	1/2	5/8	3/4	7/8	1
SPANNER SIZE	7/16	1/2	9/16	5/8	3/4	15/16	1-1/8	1-5/16	1-1/2

THREAD LENGTH (inches)

BOLT LENGTH			THREAD LENGTH								
NOMINAL	MIN	MAX	1/4	5/16	3/8	7/16	1/2	5/8	3/4	7/8	1
1	1 3/16	3/4	7/8	ALL SIZES ABOVE THE STEPPED LINE ARE FULLY THREADED							
1 1/4	1 7/16	3/4	7/8								
1 1/2	1 11/16	3/4	7/8								
1 3/4	1 15/16	3/4	7/8								
2	2 3/16	3/4	7/8	1	1 1/8	1 1/4	1 1/2	1 3/4	ALL SIZES ABOVE THE STEPPED LINE ARE FULLY THREADED		
2 1/4	2 7/16	3/4	7/8	1	1 1/8	1 1/4	1 1/2	1 3/4			
2 1/2	2 11/16	3/4	7/8	1	1 1/8	1 1/4	1 1/2	1 3/4			
2 3/4	2 15/16	3/4	7/8	1	1 1/8	1 1/4	1 1/2	1 3/4			
3	3 3/16	3/4	7/8	1	1 1/8	1 1/4	1 1/2	1 3/4	2	2 1/4	ALL SIZES ABOVE THE STEPPED LINE ARE FULLY THREADED
3 1/4	3 7/16	3/4	7/8	1	1 1/8	1 1/4	1 1/2	1 3/4	2	2 1/4	
3 1/2	3 11/16	3/4	7/8	1	1 1/8	1 1/4	1 1/2	1 3/4	2	2 1/4	
3 3/4	3 15/16	3/4	7/8	1	1 1/8	1 1/4	1 1/2	1 3/4	2	2 1/4	
4	4 3/16	3/4	7/8	1	1 1/8	1 1/4	1 1/2	1 3/4	2	2 1/4	ALL SIZES ABOVE THE STEPPED LINE ARE FULLY THREADED
4 1/4	4 7/16	3/4	7/8	1	1 1/8	1 1/4	1 1/2	1 3/4	2	2 1/4	
4 1/2	4 11/16	3/4	7/8	1	1 1/8	1 1/4	1 1/2	1 3/4	2	2 1/4	
4 3/4	4 15/16	3/4	7/8	1	1 1/8	1 1/4	1 1/2	1 3/4	2	2 1/4	
5	5 3/16	3/4	7/8	1	1 1/8	1 1/4	1 1/2	1 3/4	2	2 1/4	ALL SIZES ABOVE THE STEPPED LINE ARE FULLY THREADED
5 1/4	5 7/16	3/4	7/8	1	1 1/8	1 1/4	1 1/2	1 3/4	2	2 1/4	
5 1/2	5 11/16	3/4	7/8	1	1 1/8	1 1/4	1 1/2	1 3/4	2	2 1/4	
5 3/4	5 15/16	3/4	7/8	1	1 1/8	1 1/4	1 1/2	1 3/4	2	2 1/4	
6	6 3/16	3/4	7/8	1	1 1/8	1 1/4	1 1/2	1 3/4	2	2 1/4	ALL SIZES ABOVE THE STEPPED LINE ARE FULLY THREADED

Whilst every care was taken in the preparation of this publication, Bremick® accepts no responsibility for the accuracy of the information supplied. Bremick® reserves the right to make alterations to specifications as part of ongoing development and improvement. This publication serves as a guide and it's the responsibility of the end user to ensure suitability for their application.
The contents of this publication are the exclusive copyright of Bremick® and may not be reproduced without permission.

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