

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:	Hot Dipped Galvanised
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

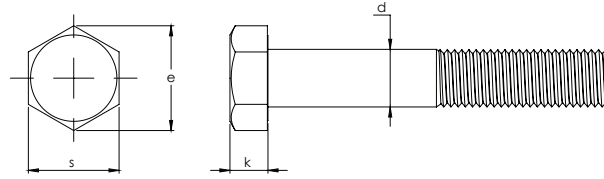
CHEMICAL COMPOSITION (%)

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

FINISH INFORMATION

HOT DIPPED GALVANISED		
DESCRIPTION	OVERVIEW	CORROSION RESISTANCE
Hot Dipped Galvanised is a process of dipping a steel object into a molten bath of zinc (455° - 480°C). The molten zinc adheres to the anchor surface covering all the corners and edges.	Bremick® Hot Dipped Galvanised Coating provides a moderate/high level of corrosion protection and is recommended for damp external application. Bremick® Hot Dipped Galvanising complies with AS/NZS 1214.	Moderate/High.

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

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