

HEX BOLT

CLASS 10.9 METRIC



ZINC
PLATED

APPLICATION

Bremick® Hex Head Metric Class 10.9 bolts are designed for industrial and construction applications where high tensile superior performance is required

PRODUCT ATTRIBUTES

Material Class: Carbon Steel Class 10.9

Thread Form: 6g

Finish: Zinc Plated

Standard: Complies to AS 1110.1 2015

Mechanical Properties: Complies to AS/NZS 4291.1 2015

Chemical Composition: Complies to AS/NZS 4291.1 2015

HEAD MARKING

Manufacturer Mark

B

Property Class

10.9

MECHANICAL PROPERTIES

PROPERTIES	TENSILE STRENGTH (MPa)	STRESS UNDER PROOF LOAD (MPa)	HARDNESS					
	MIN	NOM.	VICKERS (HV)		BRINELL (HBW)		ROCKWELL (HRC)	
			MIN	MAX	MIN	MAX	MIN	MAX
CLASS 10.9	1040	830	320	380	316	375	32	39

CHEMICAL COMPOSITION

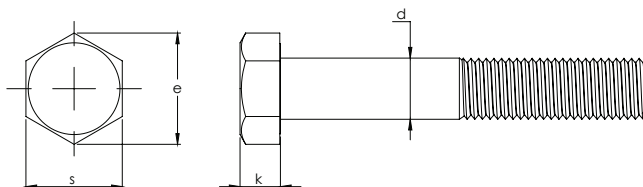
MATERIAL	C		P	S	B	TEMPERING TEMPERATURE °C
	MIN	MAX	MAX	MAX	MAX	MIN
CARBON STEEL	0.25	0.55	0.025	0.025	0.003	425

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 Plated is a Class 1 to AS 1789	Low

DIMENSIONAL DATA (mm)



DIAMETER	PITCH (mm)	ACROSS FLATS (s)		ACROSS CORNERS (e)		HEAD HEIGHT (k)		MAJOR DIAMETER (d)	
		MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX
M5	0.8	7.78	8	8.79		3.35	3.65	4.82	5
M6	1	9.78	10	11.05		3.85	4.15	5.82	6
M8	1.25	12.73	13	14.38		5.15	5.45	7.78	8
M10	1.5	15.73	16	17.77		6.22	6.58	9.78	10
M12	1.75	17.73	18	20.03		7.32	7.68	11.73	12
M14	2	20.67	21	23.36		8.62	8.98	13.73	14
M16	2	23.67	24	26.75		9.82	10.18	15.73	16
M20	2.5	29.67	30	33.53		12.28	12.72	19.67	20
M24	3	35.38	36	39.98		14.78	15.22	23.67	24
M27	3	40	41	45.2		13.65	17.35	26.48	27
M30	3.5	45	46	50.85		18.28	19.12	29.48	30
M36	4	53.8	55	60.79		22.08	22.92	35.38	36
M42	4.5	63.1	65	71.3		25.58	26.42	41.38	42
M48	5	73.1	75	82.6		29.58	30.42	47.38	48

Note: For lengths longer than 150mm or longer than 10 x diameter reference standard AS 1110.1:2015

SOCKET OR SPANNER SIZE (mm)

BOLT DIAMETER	M5	M6	M8	M10	M12	M14	M16	M20	M24	M27	M30	M36	M42	M48
SPANNER SIZE	8	10	13	16	18	21	24	30	36	41	46	55	65	75

THREAD LENGTH (mm)

Length	M5	M6	M8	M10	M12	M14	M16	M20	M24	M27	M30	M36	M42	M48
20														
25	16													
30	16	18												
35	16	18	22											
40	16	18	22											
45	16	18	22	26										
50	16	18	22	26										
55	16	18	22	26	30									
60	16	18	22	26	30	34								
65	16	18	22	26	30	34	38							
70	16	18	22	26	30	34	38							
80	16	18	22	26	30	34	38	46						
90	16	18	22	26	30	34	38	46	54					
100	16	18	22	26	30	34	38	46	54	60				
110	16	18	22	26	30	34	38	46	54	60	66			
120	16	18	22	26	30	34	38	46	54	60	66			
130	22	24	28	32	36	40	44	52	60	66	72			
140	22	24	28	32	36	40	44	52	60	66	72	84		
150	22	24	28	32	36	40	44	52	60	66	72	84		
160	-	24	28	32	36	40	44	52	60	66	72	84	96	
180	-	-	28	32	36	40	44	52	60	66	72	84	96	108
200	-	-	28	32	36	40	44	52	60	66	72	84	96	108
220	-	-	-	45	49	53	57	65	73	79	85	97	109	121
240	-	-	-	-	49	53	57	65	73	79	85	97	109	121
260	-	-	-	-	49	53	57	65	73	79	85	97	109	121
280	-	-	-	-	-	53	57	65	73	79	85	97	109	121
300	-	-	-	-	-	-	57	65	73	79	85	97	109	121
320	-	-	-	-	-	-	-	65	73	79	85	97	109	121
340	-	-	-	-	-	-	-	65	73	79	85	97	109	121
360	-	-	-	-	-	-	-	-	73	79	85	97	109	121
380	-	-	-	-	-	-	-	-	-	79	85	97	109	121
400	-	-	-	-	-	-	-	-	-	-	85	97	109	121
420	-	-	-	-	-	-	-	-	-	-	-	97	109	121
440	-	-	-	-	-	-	-	-	-	-	-	97	109	121
460	-	-	-	-	-	-	-	-	-	-	-	97	109	121
480	-	-	-	-	-	-	-	-	-	-	-	-	109	121
500	-	-	-	-	-	-	-	-	-	-	-	-	109	121

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