

HEX BOLT
CLASS 8.8 METRIC



APPLICATION

Bremick® Hex Head Metric Class 8.8 bolts are designed for industrial and construction applications where high tensile superior performance is required

PRODUCT ATTRIBUTES

Material Class:	Carbon Steel Class 8.8
Thread Form:	Metric 6g
Finish:	Hot Dipped Galvanised
Standard:	Complies to AS 1110.1:2015 - GRADE A
Mechanical Properties:	Complies to ISO 898.1:2013
Chemical Composition:	Complies to ISO 898.1:2013

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 UNDER PROOF LOAD (MPa)	HARDNESS					
			VICKERS (HV)		BRINELL (HBW)		ROCKWELL (HRC)	
	MIN	NOM.	MIN	MAX	MIN	MAX	MIN	MAX
CLASS 8.8 ≤ M16	800	580	250	320	245	316	22	32
CLASS 8.8 >M16	830	600	255	335	250	331	23	34

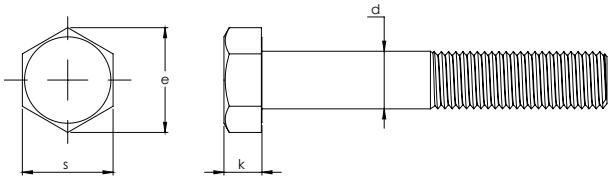
CHEMICAL COMPOSITION (%)

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

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 (mm)



DIAMETER	PITCH (mm)	ACROSS FLATS (s)		ACROSS CORNERS (e)		HEAD HEIGHT (k)	
		MIN	MAX	MIN		MIN	MAX
M5	0.8	7.78	8	8.79		3.35	3.65
M6	1	9.78	10	11.05		3.85	4.15
M8	1.25	12.73	13	14.38		5.15	5.45
M10	1.5	15.73	16	17.77		6.22	6.58
M12	1.75	17.73	18	20.03		7.32	7.68
M14	2	20.67	21	23.36		8.62	8.98
M16	2	23.67	24	26.75		9.82	10.18
M20	2.5	29.67	30	33.53		12.28	12.72
M24	3	35.38	36	39.98		14.78	15.22

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
SPANNER SIZE	8	10	13	16	18	21	24	30	36

THREAD LENGTH (mm)

Length	M5	M6	M8	M10	M12	M14	M16	M20	M24
20									
25	16								
30	16	18							
35	16	18							
40	16	18	22						
45	16	18	22	26					
50	16	18	22	26	30				
55		18	22	26	30				
60		18	22	26	30	34			
65			22	26	30	34	38		
70			22	26	30	34	38		
80			22	26	30	34	38	46	
90				26	30	34	38	46	54
100				26	30	34	38	46	54
110					30	34	38	46	54
120					30	34	38	46	54
130						40	44	52	60
140						40	44	52	60
150							44	52	60

ALL SIZES ABOVE THE STEPPED LINE ARE FULLY THREADED

FOR LENGTH UNDER THE STEP LINE REFER TO DATASHEET B

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