

HEX BOLT
CLASS 10.9 METRIC



BLACK

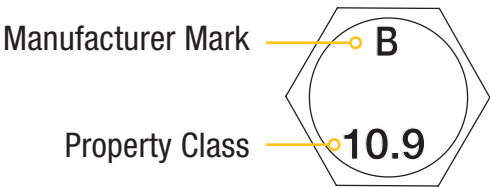
APPLICATION

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:	Metric 6g
Finish:	Plain/Black/Natural
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					
	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 (%)

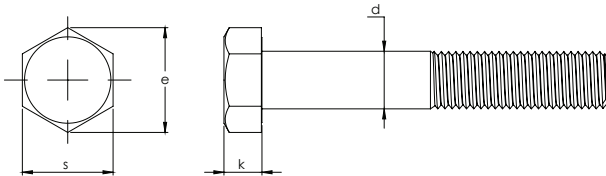
MATERIAL	C		P	S	B	TEMPERING TEMPERATURE °C
	MIN	MAX	MAX	MAX	MAX	MIN
CARBON STEEL	0.25	0.55	0.025	0.025	0.003	425

FINISH INFORMATION

PLAIN / BLACK / NATURAL

DESCRIPTION	OVERVIEW	CORROSION RESISTANCE
Plain, Black & Natural are all terms referring to the fastener not having a coating applied. The product has a light oil added.	Plain or uncoated fasteners offer no corrosion protection they are supplied lightly oiled to inhibit the rust process prior to installation and help during installation.	—

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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