

HEX BOLT A4-80 METRIC
STAINLESS STEEL



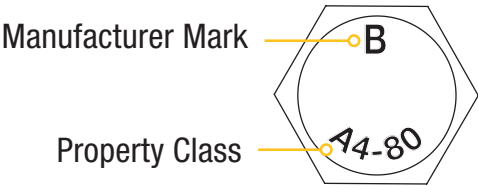
APPLICATION

Bremick® Hex Head Metric A4-80 Stainless Steel bolts are designed for industrial and construction applications where high tensile and ultimate corrosion performance is required

PRODUCT ATTRIBUTES

Material Class:	Stainless Steel A4-80
Thread Form:	Metric 6g
Standard:	Complies to DIN 931:1987
Mechanical Properties:	Complies to ISO 3506.1:2020
Chemical Composition:	Complies to ISO 3506.1:2020

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 AT 0.2% NON-PROPORTIONAL ELONGATION (MPa)	ELONGATION AFTER FRACTURE
	MIN	MIN	MIN
CLASS 80	800	600	0.3d

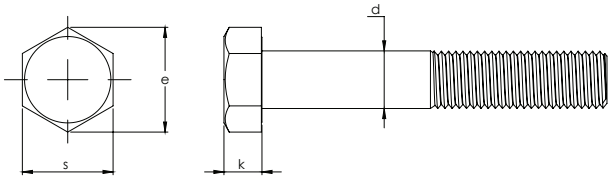
CHEMICAL COMPOSITION (%)

STAINLESS STEEL GRADE	C	Si	Mn	P	S	Cr	Mo	Ni	Cu
	MAX	MAX	MAX	MAX	MAX	RANGE	RANGE	RANGE	MAX
A4	0.08	1.00	2.00	0.045	0.030	16.0-18.5	2.00-3.00	10.0-15.0	4.0

MATERIAL INFORMATION

STAINLESS STEEL 316		
DESCRIPTION	OVERVIEW	CORROSION RESISTANCE
316 is a Marine Grade SS – It contains 2-3% Molybdenum which provides highest possible corrosion protection than 304 Stainless steel.	Bremick® 316 Stainless Steel provides the ultimate level of protection and is recommended for external application and marine environments.	Ultimate

DIMENSIONAL DATA (mm)



DIAMETER	PITCH (mm)	ACROSS FLATS (s)		ACROSS CORNERS (e)		HEAD HEIGHT (k)		SHANK DIAMETER (d)	
		MIN	MAX	MIN		MIN	MAX	MIN	MAX
M3	0.50	5.32	5.50	6.01		1.88	2.12	2.86	3.00
M4	0.70	6.78	7.00	7.66		2.68	2.92	3.82	4.00
M5	0.80	7.78	8.00	8.79		3.35	3.65	4.82	5.00
M6	1.00	9.78	10.00	11.05		3.85	4.15	5.82	6.00
M8	1.25	12.73	13.00	14.38		5.15	5.45	7.78	8.00
M10	1.50	16.73	17.00	18.90		6.22	6.48	9.78	10.00
M12	1.75	18.67	19.00	21.10		7.32	7.50	11.73	12.00
M14	2.00	21.67	22.00	24.49		8.80	10.00	13.73	14.00
M16	2.00	23.67	24.00	26.75		9.82	10.18	15.73	16.00
M20	2.50	29.67	30.00	33.53		12.28	12.72	19.67	20.00
M24	3.00	35.38	36.00	39.98		14.78	15.22	23.67	24.00
M27	3.00	40.00	41.00	45.20		13.65	17.35	26.48	27.00
M30	3.50	45.00	46.00	50.85		18.28	19.12	29.48	30.00
M33	3.50	49.00	50.00	55.37		20.58	21.42	32.38	33.00
M36	4.00	53.80	55.00	60.79		22.08	22.92	35.38	36.00
M39	4.00	58.80	60.00	66.44		24.58	25.42	38.38	39.00

SOCKET OR SPANNER SIZE (mm)

BOLT DIAMETER	M3	M4	M5	M6	M8	M10	M12	M14	M16	M20	M24	M27	M30	M33	M36	M39
SPANNER SIZE	5.5	7	8	10	13	17	19	22	24	30	36	41	46	50	55	60

THREAD LENGTH (mm)

Length	M3	M4	M5	M6	M8	M10	M12	M14	M16	M20	M24	M27	M30	M33	M36	M39
20	12															
25	12	14	16													
30	12	14	16	18												
35	12	14	16	18	22											
40	12	14	16	18	22	26										
45	12	14	16	18	22	26	30									
50	12	14	16	18	22	26	30	34								
55	12	14	16	18	22	26	30	34	38							
60	12	14	16	18	22	26	30	34	38							
65	12	14	16	18	22	26	30	34	38	46						
70	12	14	16	18	22	26	30	34	38	46						
80	12	14	16	18	22	26	30	34	38	46	54					
90	12	14	16	18	22	26	30	34	38	46	54	60	66			
100	12	14	16	18	22	26	30	34	38	46	54	60	66	72		
110	12	14	16	18	22	26	30	34	38	46	54	60	66	72	78	
120	12	14	16	18	22	26	30	34	38	46	54	60	66	72	78	84
130	-	-	22	24	28	32	36	40	44	52	60	66	72	78	84	90
140	-	-	22	24	28	32	36	40	44	52	60	66	72	78	84	90
150	-	-	22	24	28	32	36	40	44	52	60	66	72	78	84	90
160	-	-	22	24	28	32	36	40	44	52	60	66	72	78	84	90
180	-	-	22	24	28	32	36	40	44	52	60	66	72	78	84	90
200	-	-	22	24	28	32	36	40	44	52	60	66	72	78	84	90
220	-	-	-	-	-	45	49	53	57	65	73	79	85	91	97	103
240	-	-	-	-	-	45	49	53	57	65	73	79	85	91	97	103
260	-	-	-	-	-	45	49	53	57	65	73	79	85	91	97	103
280	-	-	-	-	-	45	49	53	57	65	73	79	85	91	97	103
300	-	-	-	-	-	-	49	53	57	65	73	79	85	91	97	103
320	-	-	-	-	-	-	-	53	57	65	73	79	85	91	97	103
340	-	-	-	-	-	-	-	-	57	65	73	79	85	91	97	103
360	-	-	-	-	-	-	-	-	-	65	73	79	85	91	97	103
380	-	-	-	-	-	-	-	-	-	65	73	79	85	91	97	103
400	-	-	-	-	-	-	-	-	-	-	73	79	85	91	97	103
420	-	-	-	-	-	-	-	-	-	-	-	79	85	91	97	103
440	-	-	-	-	-	-	-	-	-	-	-	-	-	91	97	103
460	-	-	-	-	-	-	-	-	-	-	-	-	-	-	97	103
480	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	103
500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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.