

SET SCREW A4-80 METRIC STAINLESS STEEL



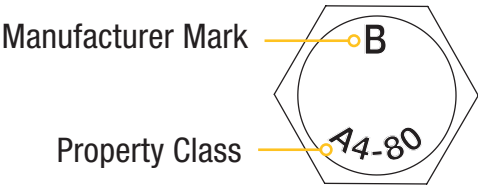
APPLICATION

Bremick® Set Screw Metric A4-80 Stainless Steel set screws 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 933:1987
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

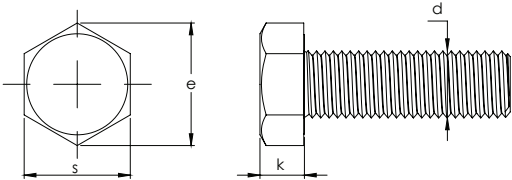
CHEMICAL COMPOSITION (%)

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)		MAJOR 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

Thread length is equivalent to bolt length as set screws are fully threaded

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