

SOCKET COUNTERSUNK

FLAT HEAD CAP SCREWS

CLASS 10.9 METRIC



APPLICATION

Bremick® Flat Head (Counter Sunk) Socket Screws are high strength fasteners manufactured to precision tolerances for use in applications where close tolerances and high tensile strength is required. The heads of these fasteners are flat topped, counter sunk with an internal hex drive recess

PLAIN

PRODUCT ATTRIBUTES

Material Class:

Carbon Steel Class 10.9

Thread Form:

Metric 6g

Finish:

Plain/Black/Natural

Standard:

Complies to DIN 7991:1986

Mechanical Properties:

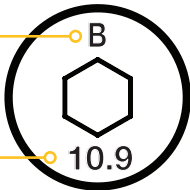
Complies to ISO 898.1:2013

Chemical Composition:

Complies to ISO 898.1:2013

HEAD MARKING

Manufacturer Mark



Property Class

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

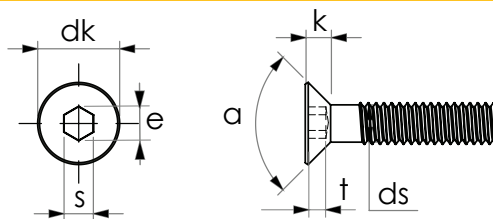
CHEMICAL COMPOSITION (%)

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)	COUNTERSUNK ANGLE (a)	SHAFT DIAMETER (ds)		HEAD DIAMETER (dk)		HEAD HEIGHT (k)	HEXAGON SOCKET SIZE ACROSS FLATS (s)		HEXAGON SOCKET SIZE ACROSS CORNERS (e)	KEY ENGAGEMENT (t)	
		NOM	MIN	MAX	MIN	MAX	MAX	MIN	MAX	MIN	MIN	MAX
M3	0.50	90°-92°	2.86	3.00	5.7	6.00	1.70	2.020	2.100	2.30	0.95	1.20
M4	0.70	90°-92°	3.82	4.00	7.64	8.00	2.30	2.520	2.600	2.87	1.55	1.80
M5	0.80	90°-92°	4.82	5.00	9.64	10.00	2.80	3.020	3.100	3.44	2.05	2.30
M6	1.00	90°-92°	5.82	6.00	11.57	12.00	3.30	4.020	4.120	4.58	2.25	2.50
M8	1.25	90°-92°	7.78	8.00	15.57	16.00	4.40	5.020	5.140	5.72	3.20	3.50
M10	1.50	90°-92°	9.78	10.00	19.48	20.00	5.50	6.020	6.140	6.86	4.10	4.40
M12	1.75	90°-92°	11.73	12.00	23.48	24.00	6.50	8.025	8.175	9.15	4.30	4.60
M14	2.00	90°-92°	13.73	14.00	26.48	27.00	7.00	10.025	10.175	11.43	4.50	4.80
M16	2.00	90°-92°	15.73	16.00	29.48	30.00	7.50	10.025	10.175	11.43	5.00	5.30
M18	2.50	90°-92°	17.73	18.00	32.38	33.00	8.00	12.032	12.212	13.72	5.20	5.50
M20	2.50	90°-92°	19.67	20.00	35.38	36.00	8.50	12.032	12.212	13.72	5.60	5.90
M22	2.50	60°-62°	21.67	22.00	35.38	36.00	13.10	14.032	14.212	16.00	8.44	8.80
M24	3.00	60°-62°	23.67	24.00	38.38	39.00	14.00	14.032	14.212	16.00	9.87	10.30

SOCKET OR SPANNER SIZE (mm)

SCREW DIAMETER	M3	M4	M5	M6	M8	M10	M12	M14	M16	M18	M20	M22	M24
SOCKET SIZE	2	2.5	3	4	5	6	8	10	10	12	12	14	14

THREAD LENGTH (mm)

NOMINAL LENGTH	M3	M4	M5	M6	M8	M10	M12	M14	M16	M18	M20	M22	M24
16	12	14											
20	12	14	16	18									
25	12	14	16	18	22								
30	12	14	16	18	22	26							
35	12	14	16	18	22	26	30	34					
40	12	14	16	18	22	26	30	34	38				
45	12	14	16	18	22	26	30	34	38	42			
50	12	14	16	18	22	26	30	34	38	42	46		
55	12	14	16	18	22	26	30	34	38	42	46	50	54
60	12	14	16	18	22	26	30	34	38	42	46	50	54
65	12	14	16	18	22	26	30	34	38	42	46	50	54
70	12	14	16	18	22	26	30	34	38	42	46	50	54
80	12	14	16	18	22	26	30	34	38	42	46	50	54
90	12	14	16	18	22	26	30	34	38	42	46	50	54
100	12	14	16	18	22	26	30	34	38	42	46	50	54
120	12	14	16	18	22	26	30	34	38	42	46	50	54
130	-	-	-	-	28	32	36	40	44	48	52	56	60
140	-	-	-	-	28	32	36	40	44	48	52	56	60
150	-	-	-	-	28	32	36	40	44	48	52	56	60
160	-	-	-	-	28	32	36	40	44	48	52	56	60
180	-	-	-	-	28	32	36	40	44	48	52	56	60
200	-	-	-	-	28	32	36	40	44	48	52	56	60
220	-	-	-	-	-	-	-	-	57	61	65	69	73
240	-	-	-	-	-	-	-	-	57	61	65	69	73
260	-	-	-	-	-	-	-	-	57	61	65	69	73
280	-	-	-	-	-	-	-	-	57	61	65	69	73
300	-	-	-	-	-	-	-	-	57	61	65	69	73

ALL SIZES ABOVE THE STEPPED LINE ARE FULLY THREADED

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