

# DIMENSIONAL DATA

## Shakeproof Lockwashers

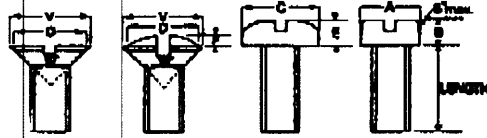
Steel and Phosphor Bronze

758-530 etc

Bolt size		External Teeth		Internal Teeth		Internal Teeth Heavy Duty		External and Internal Teeth Countersunk		Internal and External Teeth				
BA	UN Fractional Metric	Type 11	Q/D max ins	Thick-ness nom ins	Part No Type 12	O/D max ins	Thick-ness nom ins	Type 14	O/D max ins	Thick-ness nom ins	Incl angle	Part No Type 40	O/D max ins	Thick-ness nom ins
2	M2	11M2	0.177	0.012	1201	0.185	0.010							
2	M2				1202	0.185	0.010							
3	M2.6	1103	0.218	0.012	1202-1	0.205	0.012							
4		1104	0.255	0.018	1204	0.225	0.018			1504	90°		0.240	0.018
4		1804	0.255	0.014		0.255	0.014							
4		11M3	0.238	0.016	12M3	0.236	0.016							
5	3/16"	1105	0.280	0.016	1205	0.245	0.016						0.474	0.024
5	3/16"	1805	0.280	0.018	1905	0.245	0.014						0.474	0.024
4		1106	0.317	0.018	1206	0.305	0.018			1506	90°		0.307	0.018
4						0.305	0.014							
4					1206-00	0.285	0.018							
4		1106-1	0.280	0.018	1906-1	0.285	0.018							
3	5/16"	1108	0.381	0.021	1208	0.255	0.014							
3	5/16"	1808-1	0.346	0.021	1908	0.346	0.018			1508	90°		0.360	0.018
4		11M4	0.315	0.020	12M4	0.315	0.020						0.601	0.030
2	7/16"	1110	0.406	0.022	1210	0.406	0.021							
2	7/16"	1810	0.406	0.022	1210-00	0.383	0.021			1510	82°		0.380	0.021
2	7/16"	1110-1	0.381	0.022	1210-1	0.478	0.024			1510-00			0.376	0.021
2	7/16"				1910-2	0.346	0.018							
5	M5	11M5	0.354	0.020	12M5	0.354	0.020							
5	M5	1110-3	0.406	0.022		0.406	0.021							
5	M5	1812	0.474	0.024	1212	0.406	0.021			1512	90°		0.450	0.021
6	M6	1112-1	0.474	0.024	1212-1	0.607	0.030			1512-1†	82°		0.415	0.022
6	M6	11M6	0.433	0.028	1212A	0.406	0.021			1512-00	82°		0.430	0.021
6	M6	1114	0.506	0.028	12M6	0.433	0.027							
6	M6	1814	0.506	0.028	1214	0.478	0.024	1414	0.538	0.040	90°	4014-20	0.480	0.021
7	M7				1214-5	0.406	0.021			1514-00	82°		0.517	0.021
7	M7				1216	0.478	0.024			1514-4†	90°		0.760	0.030
8	M8	1118	0.601	0.030	1218	0.607	0.030	1418	0.607	0.045	90°	4018-24	0.647	0.025
8	M8	11M8	0.551	0.031	12M8	0.551	0.031			1518-00	82°		0.647	0.025
8	M8												0.847	0.025
8	M8												0.847	0.025

ISO metric fasteners

Slotted heads

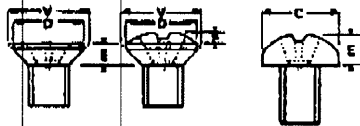


Head dimensions  
BS 4183:1957

All dimensions in millimetres

Nominal size	Pitch	CSK and RSD CSK head					Pan head		Cheese head					
		Dia of head		Height of raise F	Max land on min dia	Depth E	Max	Min	Depth E		Dia of head A		Depth B	
		'V' max (sharp)	'D' min						Max	Min	Max	Min	Max	Min
M2	0.40	4.40	3.60	0.60	0.25	4.00	3.70	1.20	1.06	3.80	3.50	1.30	1.18	
M2.5	0.45	5.50	4.45	0.60	0.31	5.00	4.70	1.50	1.36	4.50	4.20	1.60	1.46	
M3	0.50	6.30	5.25	0.75	0.37	6.00	5.70	1.80	1.66	5.50	5.20	2.00	1.88	
(M3.5)	0.50	7.35	6.12	0.90	0.44	7.00	6.64	2.10	1.98	6.00	5.70	2.40	2.26	
M4	0.70	8.40	7.04	1.00	0.50	8.00	7.64	2.40	2.28	7.00	6.64	2.80	2.48	
M5	0.80	10.00	8.75	1.25	0.62	10.00	9.64	3.00	2.86	8.50	8.14	3.30	3.12	
M6	1.00	12.00	10.50	1.50	0.75	12.00	11.57	3.60	3.42	10.00	9.64	3.90	3.72	
M8	1.25	16.00	14.00	2.00	1.00	16.00	15.57	4.80	4.62	13.00	12.57	5.00	4.82	
M10	1.50	20.00	17.50	2.50	1.25	20.00	19.48	6.00	5.82	16.00	15.57	6.00	5.82	
M12	1.75	24.00	21.00	3.00	1.50	—	—	—	—	18.00	17.57	7.00	6.78	

Pozidriv heads



Head dimensions  
Pozidriv recess heads to BS 4183:1967

All dimensions in millimetres

Nominal size	Pitch	CSK and RSD CSK head					Pan head		Depth of head E				Recess no
		Dia of head		Height of raise F	Depth of head E max	Dia of head C	Max	Min	Max	Min			
		'V' max	'D' min										
M2.5	0.45	5.50	4.45	0.60	1.50	5.00	4.70	1.95	1.80	1			
M3	0.50	6.30	5.25	0.75	1.85	6.00	5.70	2.30	2.16	1			
(M3.5)	0.50	7.35	6.12	0.90	1.93	7.00	6.64	2.45	2.31	2			
M4	0.70	8.40	7.04	1.00	2.20	8.00	7.64	2.80	2.68	2			
M5	0.80	10.00	8.75	1.25	2.50	10.00	9.64	3.50	3.32	2			
M6	1.00	12.00	10.50	1.50	3.00	12.00	11.57	4.20	3.98	3			
M8	1.25	16.00	14.00	2.00	4.00	16.00	15.57	5.60	5.42	4			
M10	1.50	20.00	17.50	2.50	5.00	20.00	19.48	7.00	6.78	4			
M12	1.75	24.00	21.00	3.00	6.00	—	—	—	—	4			

Non preferred diameter in parentheses, but full range stocked