

Metric Cup Head Square Neck Bolts

Threads ISO Metric Coarse
Pitch Series
Dimensions to AS 1390

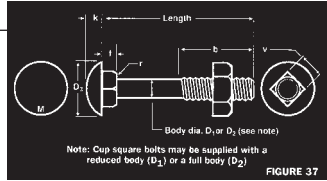


Table 47 Metric Series Cup Square Bolts

Nom. Size and Thread Dia.	Pitch of Thread	Diameter of Body			Across Flats of Square Neck V		Length of Square Neck f		Head Diameter D3		Head Thickness k	
		Reduced Body D1		Full Body D2	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
		Min.	Max.	Min.								
M6	1.0	5.2	6.48	5.52	6.48	5.52	3.6	3.0	13.5	12.4	3.6	3.0
M8	1.25	7.0	8.58	7.42	8.58	7.42	4.8	4.0	18.0	16.9	4.8	4.0
M10	1.50	8.8	10.58	9.42	10.58	9.42	5.8	5.0	22.5	21.2	5.8	5.0
M12	1.75	10.6	12.70	11.30	12.70	11.30	6.8	6.0	27.0	25.7	6.8	6.0
M16	2.0	14.5	16.70	15.30	16.70	15.30	8.9	8.0	36.0	34.4	8.9	8.0
M20	2.5	18.1	20.84	19.16	20.84	19.16	10.9	10.0	45.0	43.4	10.9	10.0

For nut dimensions refer to page 14

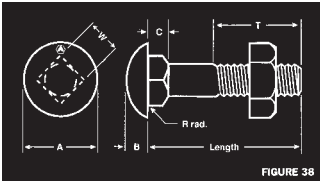
Standard Thread Length for Bolts

Nominal Length of Bolt /	Minimum Length of Thread b							
	M5	M6	M8	M10	M12	M16	M20	M24
Up to and including 125mm	16	18	22	26	30	38	46	54
Over 125 up to and including 200mm	22	24	28	32	36	44	52	60
Over 200mm	-	-	41	45	49	57	65	73

Maximum thread length shall not exceed 80mm

Mechanical Properties:

Tensile Strength = 400 MPa (N/mm²) minimum
 = 58,000 lbf/in² minimum
 = 25.9 tonf/in² minimum



Threads BSW Free Class
Dimensions to AS B108

Table 48

Size	Threads per inch	Head Diameter A		Head Thickness B		Depth of Square C		Width of Square W	
		Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
3/16	24	.451	.391	.113	.093	.125	.094	.197	.183
1/4	20	.592	.532	.145	.125	.156	.125	.260	.245
5/16	18	.733	.673	.176	.156	.187	.156	.323	.307
3/8	16	.873	.813	.207	.187	.219	.188	.388	.368
7/16	14	1.014	.954	.238	.218	.250	.219	.451	.431
1/2	12	1.155	1.095	.270	.250	.281	.250	.515	.492

For nut dimensions refer to page 14