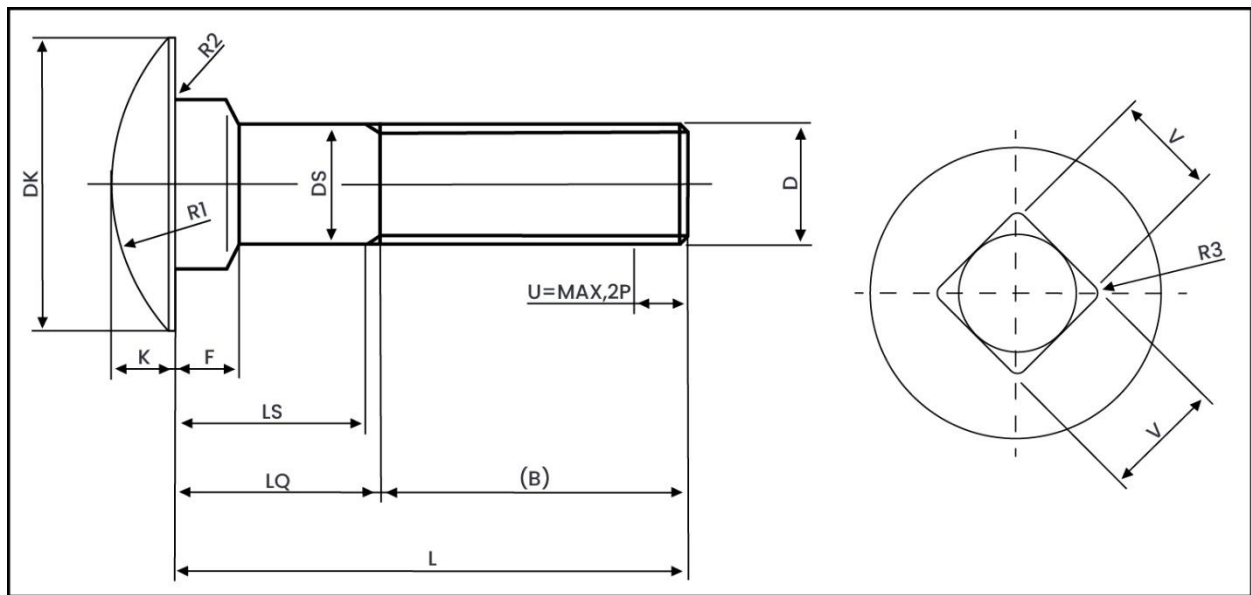


DIN 603

Carriage Bolt – Round Head Square Neck



Metric Dimensions – DIN 603 Carriage Bolt – Round Head Square Neck

Table 1: Metric Dimensions – M5 to M20

Thread D		M5	M6	M8	M10	M12	M16	M20
Pitch		0.80	1	1.25	1.50	1.75	2	2.50
DK	Min.	12.45	15.45	19.35	23.35	29.35	37.20	45.20
	Max.	13.55	16.55	20.65	24.65	30.65	38.80	46.80
DS	Min.	4.52	5.52	7.42	9.42	11.30	15.30	19.16
	Max.	5	6	8	10	12	16	20
F	Min.	2.90	3.40	4.40	5.40	7.25	11.10	14.10
	Max.	4.10	4.60	5.60	6.60	8.75	12.90	15.90
K	Min.	2.70	3.12	4.12	4.62	6.05	8.05	9.95
	Max.	3.30	3.88	4.88	5.38	6.95	8.95	11.05
R1	Approx.	10.70	12.60	16	19.20	24.10	29.30	33.90
R2	Max.	0.50	0.50	0.50	0.50	1	1	1
R3	Max.	0.75	0.90	1.20	1.50	1.80	2.40	3
V	Min.	4.52	5.52	7.42	9.42	11.30	15.30	19.16
	Max.	5.48	6.48	8.58	10.58	12.70	16.70	20.84
B	$L < 125 \text{ mm}$	16	18	22	26	30	38	46
	$125 < L < 200 \text{ mm}$	22	24	28	32	36	44	52
	$L > 200 \text{ mm}$	-	-	41	45	49	57	65

Table 2: Length – M5 to M10

L			M5		M6		M8		M10	
<i>Nominal</i>	<i>Min.</i>	<i>Max.</i>	<i>LS Min.</i>	<i>LG Max.</i>	<i>LS Min.</i>	<i>LG Max.</i>	<i>LS Min.</i>	<i>LG Max.</i>	<i>LS Min.</i>	<i>LG Max.</i>
16	15.10	16.90	-	8	-	10				
20	18.95	21.05	-	8	-	10	-	12	-	14
25	23.95	26.05	-	8	-	10	-	12	-	14
30	28.95	31.05	-	18	-	10	-	12	-	14
35	33.75	36.25	15	19	12	17	-	12	-	14
40	38.75	41.25	20	24	17	22	11.75	18	-	14
45	43.75	46.25	25	29	22	27	16.75	23	11.50	19
50	48.75	51.25	30	34	27	32	21.75	28	16.50	24
55	53.50	56.50	35	39	32	37	26.75	33	21.50	29
60	58.50	61.50	40	44	37	42	31.75	38	26.50	34
65	63.50	66.50	45	49	42	47	36.75	43	31.50	39
70	68.50	71.50	50	54	47	52	41.75	48	36.50	44
80	78.50	81.50	60	64	57	62	51.75	58	46.50	54
90	88.25	91.75			67	72	61.75	68	56.50	64
100	98.25	101.75			77	82	71.75	78	66.50	74
110	108.25	111.75			87	92	81.75	88	76.50	84
120	118.25	121.75			97	102	91.75	98	86.50	94
130	128	132			101	106	95.75	102	90.50	98
140	138	142			111	116	105.75	112	108.50	108
150	148	152			121	126	115.75	122	110.50	118
160	156	164							120.50	128
180	176	184							140.50	148
200	195.40	204.60							160.50	168

Table 3: Length: M12 to M20

L			M12		M16		M20	
<i>Nominal</i>	<i>Min.</i>	<i>Max.</i>	<i>LS Min.</i>	<i>LG Max.</i>	<i>LS Min.</i>	<i>LG Max.</i>	<i>LS Min.</i>	<i>LG Max.</i>
30	28.95	31.05	-	18				
35	33.75	36.25	-	18				
40	38.75	41.25	-	18				
45	43.75	46.25	-	18				
50	48.75	51.25	-	18				
55	53.50	56.50	16.25	25	-	23		
60	58.50	61.50	21.25	30	-	23		
65	63.50	66.50	26.75	35	17	27		
70	68.50	71.50	31.25	40	22	32	-	28.50
80	78.50	81.50	41.25	50	32	42	21.50	34
90	88.25	91.75	51.25	60	42	52	31.50	44
100	98.25	101.75	61.25	70	52	62	41.50	54
110	108.25	111.75	71.25	80	62	72	51.50	64
120	118.25	121.75	81.25	90	72	82	61.50	74
130	128	132	85.25	94	76	86	65.50	78
140	138	142	95.25	104	86	96	75.50	?
150	148	152	105.25	114	96	106	85.50	98
160	156	164	115.25	124	106	116	95.50	108
180	176	184	135.25	144	126	136	115.50	128
200	195.40	204.60	155.25	164	146	156	135.50	148