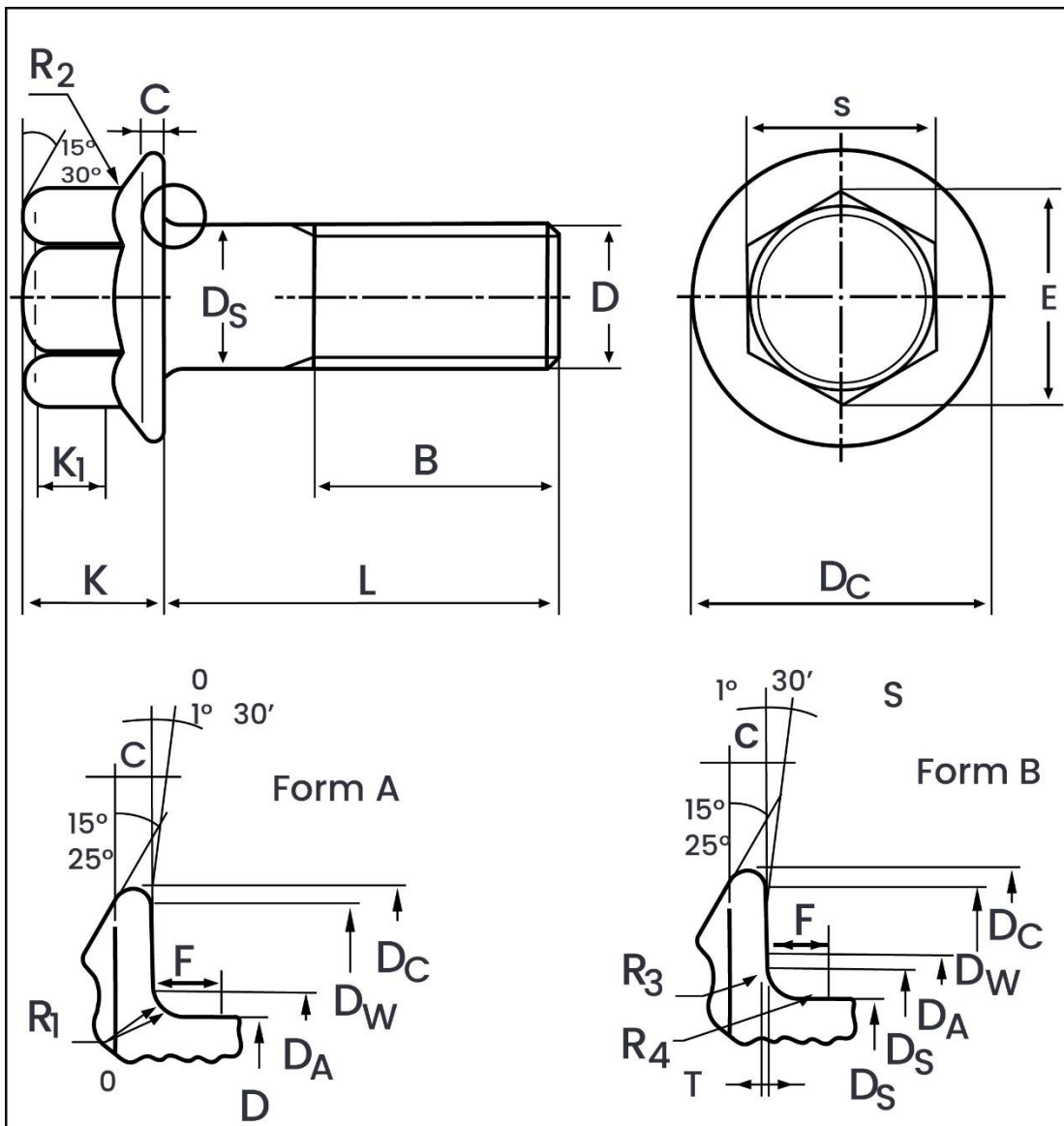


DIN 6921

Hexagon Flange Bolt



Metric Dimensions – DIN 6921 Hexagon Flange Bolt

Table 1: Metric Dimensions – M5 to M20

Thread D		M5	M6	M8	M10	M12	M14	M16	M20
Pitch		0.80	1	1.25	1.50	1.75	2	2	2.50
DS	Min.	4.82	5.82	7.78	9.78	11.73	13.73	15.73	19.67
	Max.	5	6	8	10	12	14	16	20
S	Min.	7.78	9.78	12.73	14.73	16	18	21	27
	Max.	8	10	13	15	15.73	17.73	20.67	26.67
C	Min.	1	1.10	1.20	1.50	1.80	2.10	2.40	3
DC	Max.	11.80	14.20	18	22.30	26.60	30.50	35	43
E	Min.	8.71	10.95	14.26	17.62	19.86	23.15	26.51	33.23
DW	Min.	9.80	12.20	15.80	19.60	23.80	27.60	31.90	39.90
R1	Min.	0.25	0.40	0.40	0.40	0.60	0.60	0.60	0.80
R2	Max.	0.30	0.40	0.50	0.60	0.70	0.90	1	1.20
R3	Min.	0.10	0.10	0.15	0.20	0.25	0.30	0.35	0.40
R4	Approx.	3	3.40	4.30	4.30	6.40	6.40	6.40	8.50
K	Max.	5.40	6.60	8.10	9.20	11.50	12.80	14.40	17.10
B	$L < 125 \text{ mm}$	16	18	22	26	30	34	38	46
	$125 < L < 200 \text{ mm}$	-	-	28	32	36	40	44	52
	$L > 200 \text{ mm}$	-	-	-	-	-	-	57	65

Table 2: Length – M5 to M8

L			M5		M6		M8	
Nominal	Min.	Max.	LS Min.	LG Max.	LS Min.	LG Max.	LS Min.	LG Max.
10	9.71	10.29	-	2.40				
12	11.65	12.35	-	2.40	-	3		
16	15.65	16.35	-	2.40	-	3	-	4
20	19.58	20.42	-	4	-	3	-	4
25	24.58	25.42	5	9	2	7	-	4
30	29.58	30.42	10	14	7	12	-	8
35	34.50	35.50	15	19	12	17	6.75	13
40	39.50	40.50	20	24	17	22	11.75	18
45	44.50	45.50	25	29	22	27	16.75	23
50	49.50	50.50	30	34	27	32	21.75	28
55	54.40	55.60			32	37	26.75	33
60	59.40	60.60			37	42	31.75	38
65	64.40	65.50					36.75	43
70	69.40	70.60					41.75	48
80	79.40	80.60					51.75	58

Table 3: Length – M10 to M14

L			M10		M12		M14	
<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>
20	19.58	20.42	-	4.50				
25	24.58	25.42	-	4.50	-	5.30		
30	29.58	30.42	-	4.50	-	5.30	-	6
35	34.50	35.50	-	9	-	5.30	-	6
40	39.50	40.50	6.50	14	-	10	-	6
45	44.50	45.50	11.50	19	6.25	15	-	11
50	49.50	50.50	16.50	24	11.25	20	6	16
55	54.40	55.60	21.50	29	16.25	25	11	21
60	59.40	60.60	26.50	34	21.25	30	16	26
65	64.40	65.50	31.50	39	26.25	35	21	31
70	69.40	70.60	36.50	44	31.25	40	26	36
80	79.40	80.60	46.50	54	41.25	50	36	46
90	89.30	90.70	56.50	64	51.25	60	46	56
100	99.30	100.70	66.50	74	61.25	70	56	66
110	109.30	110.70			71.25	80	66	76
120	119.30	120.70			81.25	90	76	86
130	129.20	130.80					80	90
140	139.20	140.80					90	100

Table 4: Length – M16 to M20

L			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>
35	34.50	35.50	-	6		
40	39.50	40.50	-	6	-	7.50
45	44.50	45.50	-	6	-	7.50
50	49.50	50.50	-	12	-	7.50
55	54.40	55.60	7	17	-	9
60	59.40	60.60	12	22	-	14
65	64.40	65.50	17	27	6.50	19
70	69.40	70.60	22	32	11.50	24
80	79.40	80.60	32	42	21.50	34
90	89.30	90.70	42	52	31.50	44
100	99.30	100.70	52	62	41.50	54
110	109.30	110.70	62	72	51.50	54
120	119.30	120.70	72	82	61.50	74
130	129.20	130.80	76	86	65.50	78
140	139.20	140.80	86	96	75.50	88
150	149.20	150.80	96	106	85.50	98
160	159.20	160.80	106	116	95.50	108
180	179.20	180.80			115.50	128
200	199	201			135.50	148