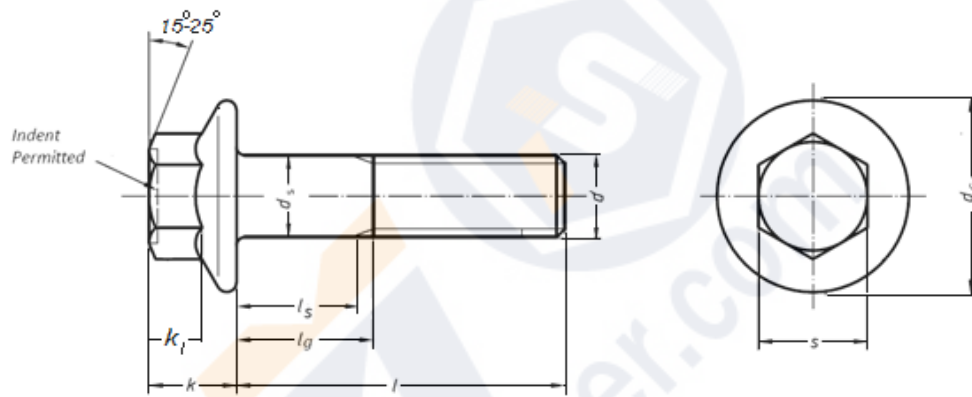


Flange Bolts



d	s		dc	ds		k	k1
	min.	max.	max.	min.	max.	max.	min.
M5	7.78	8	11.8	4.82	5	5.4	2
M6	9.78	10	14.2	5.82	6	6.6	2.5
M8	12.73	13	18	7.78	8	8.1	3.2
M10	14.73	15	22.3	9.78	10	9.2	3.6
M12	15.73	16	26.6	11.73	12	11.5	4.6
M14	17.73	18	30.5	13.73	14	12.8	5.1
M16	20.67	21	35	15.73	16	14.4	5.8
M20	26.67	27	43	19.67	20	17.1	6.8

Thread d			M5		M6		M8		M10		M12		M14		M16		M20								
l			ls	lg	ls	lg	ls	lg	ls	lg	ls	lg	ls	lg	ls	lg	ls	lg							
nom.	min.	max.	min.	Max.	min.	Max.	min.	Max.	min.	Max.	min.	Max.	min.	Max.	min.	Max.	min.	Max.							
10	9.71	10.29	ft	2.4	ft	3	3	4	4	4.5	4.5	5.3	6	6	6	6	6	6	7.5						
12	11.65	12.35		2.4																3					
16	15.65	16.35		2.4																3					
20	19.58	20.42		4																3					
25	24.58	25.42	5	9	2	7	ft	4	ft	4.5	5.3	6	6	6	6	6	6	7.5							
30	29.58	30.42	10	14	7	12		8		4.5									5.3						
35	34.5	35.05	15	19	12	17	6.75	13	9	5.3	ft	6	6	6	6	6	6	7.5							
40	39.5	40.5	20	24	17	22	11.75	18	6.5	14		10							11	12	12	12	12	12	14
45	44.5	45.5	25	29	22	27	16.75	23	11.5	19	6.25	15	6	16	ft	12	6.5	11.5	14						
50	49.5	50.5	30	34	27	32	21.75	28	16.5	24	11.25	20	6	16		12				12	12	12	14		
55	54.4	55.6	b	b	32	37	26.75	33	21.5	29	16.25	25	11	21	7	17	b	6.5	11.5	14					
60	59.4	60.6			37	42	31.75	38	26.5	34	21.25	30	16	26	12	22					12	12	12	14	
65	64.4	65.6			36.75	43	31.5	39	26.25	35	21	31	17	27	17	27					17	17	17	19	
70	69.4	70.6			41.75	48	36.5	44	31.25	40	26	36	22	32	32	32					32	32	32	32	24
80	79.4	80.6			51.75	58	46.5	54	41.25	50	36	46	36	46	36	46					36	46	36	46	34
90	89.3	90.7			56.5	64	51.25	60	46	56	46	56	46	56	46	56					46	56	46	56	44
100	99.3	100.7			66.5	74	61.25	70	56	66	56	66	56	66	56	66					56	66	56	66	54
110	109.3	110.7			71.25	80	66	76	62	72	62	72	62	72	62	72					62	72	62	72	64
120	119.3	120.7			81.25	90	76	86	72	82	72	82	72	82	72	82					72	82	72	82	74
130	129.2	130.8			b	b	b	b	b	b	b	b	b	b	80	90					76	86	65.5	78	
140	139.2	140.8	90	100											86	96	75.5	88							
150	149.2	150.8	96	106											85.5	98									
160	159.2	160.8	106	116											95.5	108									
180	179.2	180.8	b	b											115.5	128									
200	199	201															b	b	135.5	148					

ft = fully threaded; b = a grip length maximum, when subtracting the nominal thread length (b) from the overall length.

Specification Requirements:

- Dimensions: DIN 6921
- Threads: 6g
- Material & Mechanical Properties: ISO 898-1