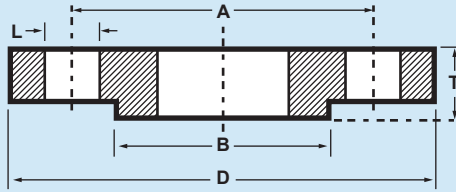


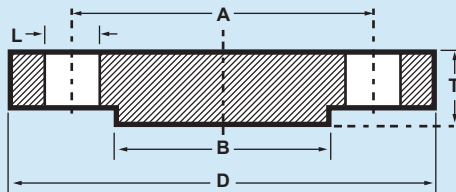


Raised face on Metric and ANSI Only

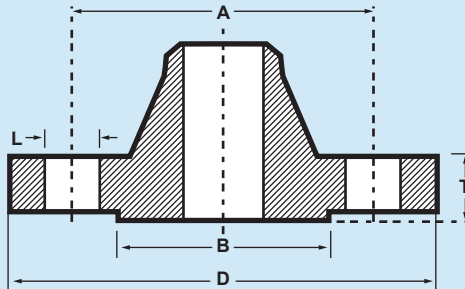
Plate Slip on Flange



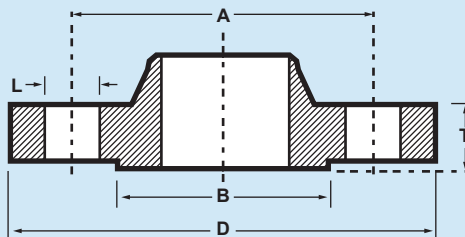
Blind Flange



Weld Neck Flange



Bossed Slip on Flange





Flanges: ANSI B16.5

Bolt Lengths shown are for studbolts allowing for 2 Washers and 2 Standard Nuts.

Nominal Pipe Size	Flange Rating	Diameter of Flange D	Bolt Circle Diameter A	Number of Bolts	Bolt Size		Ring Size RTJ	Diameter of Holes L	Diameter of Raised Face B	Thickness of Flange T
					RF	RTJ				
1/2"	150LB	3.50	2.38	4	1/2 X 2.25	-	-	0.62	1.38	0.44
	300LB	3.75	2.62	4	1/2 X 2.50	1/2 X 3.00	R11	0.62	1.38	0.56
	600LB	3.75	2.62	4	1/2 X 3.00	1/2 X 3.00	R11	0.62	1.38	0.56
	900LB	4.75	3.25	4	3/4 X 4.25	3/4 X 4.25	R12	0.88	1.38	0.88
	1500LB	4.75	3.25	4	3/4 X 4.25	3/4 X 4.25	R12	0.88	1.38	0.88
3/4"	2500LB	5.25	3.50	4	3/4 X 4.75	3/4 X 4.75	R13	0.88	1.38	1.19
	150LB	3.88	2.75	4	1/2 X 2.50	-	-	0.62	1.69	0.50
	300LB	4.62	3.25	4	5/8 X 3.00	5/8 X 3.50	R13	0.75	1.69	0.62
	600LB	4.62	3.25	4	5/8 X 3.50	5/8 X 3.50	R13	0.75	1.69	0.62
	900LB	5.12	3.50	4	3/4 X 4.50	3/4 X 4.50	R14	0.88	1.69	1.00
1"	1500LB	5.12	3.50	4	3/4 X 4.50	3/4 X 4.50	R14	0.88	1.69	1.00
	2500LB	5.50	3.75	4	3/4 X 5.00	3/4 X 5.00	R16	0.88	1.69	1.25
	150LB	4.25	3.12	4	1/2 X 2.50	1/2 X 3.00	R15	0.62	2.00	0.56
	300LB	4.88	3.50	4	5/8 X 3.00	5/8 X 3.50	R16	0.75	2.00	0.69
	600LB	4.88	3.50	4	5/8 X 3.50	5/8 X 3.50	R16	0.75	2.00	0.69
1 1/4"	900LB	5.88	4.00	4	7/8 X 5.00	7/8 X 5.00	R16	1.00	2.00	1.12
	1500LB	5.88	4.00	4	7/8 X 5.00	7/8 X 5.00	R16	1.00	2.00	1.12
	2500LB	6.25	4.25	4	7/8 X 5.50	7/8 X 5.50	R18	1.00	2.00	1.38
	150LB	4.62	3.50	4	1/2 X 2.75	1/2 X 3.25	R17	0.62	2.50	0.62
	300LB	5.25	3.88	4	5/8 X 3.25	5/8 X 3.75	R18	0.75	2.50	0.75
1 1/2"	600LB	5.25	3.88	4	5/8 X 3.75	5/8 X 3.75	R18	0.75	2.50	0.81
	900LB	6.25	4.38	4	7/8 X 5.00	7/8 X 5.00	R18	1.00	2.50	1.12
	1500LB	6.25	4.38	4	7/8 X 5.00	7/8 X 5.00	R18	1.00	2.50	1.12
	2500LB	7.25	5.12	4	1.00 X 6.00	1.00 X 6.00	R21	1.12	2.50	1.50
	150LB	5.00	3.88	4	1/2 X 2.75	1/2 X 3.25	R19	0.62	2.88	0.69
1 1/2"	300LB	6.12	4.50	4	3/4 X 3.50	3/4 X 4.00	R20	0.88	2.88	0.81
	600LB	6.12	4.50	4	3/4 X 4.25	3/4 X 4.25	R20	0.88	2.88	0.88
	900LB	7.00	4.88	4	1.00 X 5.50	1.00 X 5.50	R20	1.12	2.88	1.25
	1500LB	7.00	4.88	4	1.00 X 5.50	1.00 X 5.50	R20	1.12	2.88	1.25
	2500LB	8.00	5.75	4	1 1/8 X 6.75	1 1/8 X 6.75	R23	1.25	2.88	1.75
2"	150LB	6.00	4.75	4	5/8 X 3.25	5/8 X 3.75	R22	0.75	3.62	0.75
	300LB	6.50	5.00	8	5/8 X 3.50	5/8 X 4.00	R23	0.75	3.62	0.88
	600LB	6.50	5.00	8	5/8 X 4.25	5/8 X 4.25	R23	0.75	3.62	1.00
	900LB	8.50	6.50	8	7/8 X 5.75	7/8 X 5.75	R24	1.00	3.62	1.50
	1500LB	8.50	6.50	8	7/8 X 5.75	7/8 X 5.75	R24	1.00	3.62	1.50
2 1/2"	2500LB	9.25	6.75	8	1.00 X 7.00	1.00 X 7.00	R26	1.12	3.62	2.00
	150LB	7.00	5.50	4	5/8 X 3.50	5/8 X 4.00	R25	0.75	4.12	0.88
	300LB	7.50	5.88	8	3/4 X 4.00	3/4 X 4.50	R26	0.88	4.12	1.00
	600LB	7.50	5.88	8	3/4 X 4.75	3/4 X 4.75	R26	0.88	4.12	1.12
	900LB	9.62	7.50	8	1.00 X 6.25	1.00 X 6.25	R27	1.12	4.12	1.62
3"	1500LB	9.62	7.50	8	1.00 X 6.25	1.00 X 6.25	R27	1.12	4.12	1.62
	2500LB	10.50	7.75	8	1 1/8 X 7.75	1 1/8 X 8.00	R28	1.25	4.12	2.25
	150LB	7.50	6.00	4	5/8 X 3.50	5/8 X 4.00	R29	0.75	5.00	0.94
	300LB	8.25	6.62	8	3/4 X 4.25	3/4 X 4.75	R31	0.88	5.00	1.12
	600LB	8.25	6.62	8	3/4 X 5.00	3/4 X 5.00	R31	0.88	5.00	1.25
4"	900LB	9.50	7.50	8	7/8 X 5.75	7/8 X 5.75	R31	1.00	5.00	1.50
	1500LB	10.50	8.00	8	1 1/8 X 7.00	1 1/8 X 7.00	R35	1.25	5.00	1.88
	2500LB	12.00	9.00	8	1 1/4 X 8.75	1 1/4 X 9.00	R32	1.38	5.00	2.62
	150LB	9.00	7.50	8	5/8 X 3.50	5/8 X 4.00	R36	0.75	6.19	0.94
	300LB	10.00	7.88	8	3/4 X 4.50	3/4 X 5.00	R37	0.88	6.19	1.25
4"	600LB	10.75	8.50	8	7/8 X 5.75	7/8 X 5.75	R37	1.00	6.19	1.50
	900LB	11.50	9.25	8	1 1/8 X 6.75	1 1/8 X 6.75	R37	1.25	6.19	1.75
	1500LB	12.25	9.50	8	1 1/4 X 7.75	1 1/4 X 7.75	R39	1.38	6.19	2.12
	2500LB	14.00	10.75	8	1 1/2 X 10.00	1 1/2 X 10.25	R38	1.62	6.19	3.00



Flanges: ANSI B16.5

Bolt Lengths shown are for studbolts allowing for 2 Washers and 2 Standard Nuts.

Nominal Pipe Size	Flange Rating	Diameter of Flange D	Bolt Circle Diameter A	Number of Bolts	Bolt Size		Ring Size RTJ	Diameter of Holes L	Diameter of Raised Face B	Thickness of Flange T
					RF	RTJ				
5"	150LB	10.00	8.50	8	3/4 X 3.75	3/4 X 4.25	R40	0.88	7.31	0.94
	300LB	11.00	9.25	8	3/4 X 4.75	3/4 X 5.25	R41	0.88	7.31	1.38
	600LB	13.00	10.50	8	1.00 X 6.50	1.00 X 6.50	R41	1.12	7.31	1.75
	900LB	13.75	11.00	8	1 1/4 X 7.50	1 1/4 X 7.50	R41	1.38	7.31	2.00
	1500LB	14.75	11.50	8	1 1/2 X 9.75	1 1/2 X 9.75	R44	1.62	7.31	2.88
2500LB	16.50	12.75	8	1 3/4 X 11.75	1 3/4 X 12.25	R42	1.88	7.31	3.62	
6"	150LB	11.00	9.50	8	3/4 X 4.00	3/4 X 4.50	R43	0.88	8.50	1.00
	300LB	12.50	10.62	12	3/4 X 4.75	3/4 X 5.50	R45	0.88	8.50	1.44
	600LB	14.00	11.50	12	1.00 X 6.75	1.00 X 6.75	R45	1.12	8.50	1.88
	900LB	15.00	12.50	12	1 1/8 X 7.50	1 1/8 X 7.75	R45	1.25	8.50	2.19
	1500LB	15.50	12.50	12	1 3/8 X 10.25	1 3/8 X 10.50	R46	1.50	8.50	3.25
2500LB	19.00	14.50	8	2.00 X 13.50	2.00 X 14.00	R47	2.12	8.50	4.25	
8"	150LB	13.50	11.75	8	3/4 X 4.25	3/4 X 4.75	R48	0.88	10.62	1.12
	300LB	15.00	13.00	12	7/8 X 5.50	7/8 X 6.00	R49	1.00	10.62	1.62
	600LB	16.50	13.75	12	1 1/8 X 7.50	1 1/8 X 7.75	R49	1.25	10.62	2.19
	900LB	18.50	15.50	12	1 3/8 X 8.75	1 3/8 X 8.75	R49	1.50	10.62	2.50
	1500LB	19.00	15.50	12	1 5/8 X 11.50	1 5/8 X 12.75	R50	1.75	10.62	3.62
2500LB	21.75	17.25	12	2.00 X 15.00	2.00 X 15.50	R51	2.12	10.62	5.00	
10"	150LB	16.00	14.25	12	7/8 X 4 1/2	7/8 X 5.00	R52	1.00	12.75	1.19
	300LB	17.50	15.25	16	1.00 X 6.25	1.00 X 6.75	R53	1.12	12.75	1.88
	600LB	20.00	17.00	16	1 1/4 X 8.50	1 1/4 X 8.50	R53	1.38	12.75	2.50
	900LB	21.50	18.50	16	1 3/8 X 9.25	1 3/8 X 9.25	R53	1.50	12.75	2.75
	1500LB	23.00	19.00	12	1 7/8 X 13.25	1 7/8 X 13.50	R54	2.00	12.75	4.25
2500LB	26.50	21.25	12	2 1/2 X 19.25	2 1/2 X 20.00	R55	2.62	12.75	6.50	
12"	150LB	19.00	17.00	12	7/8 X 4.75	7/8 X 5.25	R56	1.00	15.00	1.25
	300LB	20.50	17.75	16	1 1/8 X 6.75	1 1/8 X 7.25	R57	1.25	15.00	2.00
	600LB	22.00	19.25	20	1 1/4 X 8.75	1 1/4 X 8.75	R57	1.38	15.00	2.62
	900LB	24.00	21.00	20	1 3/8 X 10.00	1 3/8 X 10.00	R57	1.50	15.00	3.12
	1500LB	26.50	22.50	16	2.00 X 14.75	2.00 X 15.25	R58	2.12	15.00	4.88
2500LB	30.00	24.38	12	2 3/4 X 21.25	2 3/4 X 22.00	R60	2.88	15.00	7.25	
14"	150LB	21.00	18.75	12	1.00 X 5.25	1.00 X 5.75	R59	1.12	16.25	1.38
	300LB	23.00	20.25	20	1 1/8 X 7.00	1 1/8 X 7.50	R61	1.25	16.25	2.12
	600LB	23.75	20.75	20	1 3/8 X 9.25	1 3/8 X 9.25	R61	1.50	16.25	2.75
	900LB	25.25	22.00	20	1 1/2 X 10.75	1 1/2 X 11.00	R62	1.62	16.25	3.38
	1500LB	29.50	25.00	16	2 1/4 X 16.00	2 1/4 X 16.75	R63	2.38	16.25	5.25
16"	150LB	23.50	21.25	16	1.00 X 5.25	1.00 X 5.75	R64	1.12	18.50	1.44
	300LB	25.50	22.50	20	1 1/4 X 7.50	1 1/4 X 8.00	R65	1.38	18.50	2.25
	600LB	27.00	23.75	20	1 1/2 X 10.00	1 1/2 X 10.00	R65	1.62	18.50	3.00
	900LB	27.75	24.25	20	1 5/8 X 11.25	1 5/8 X 11.50	R66	1.75	18.50	3.50
	1500LB	32.50	27.75	16	2 1/2 X 17.50	2 1/2 X 18.50	R67	2.62	18.50	5.75
18"	150LB	25.00	22.75	16	1 1/8 X 5.75	1 1/8 X 6.25	R68	1.25	21.00	1.56
	300LB	28.00	24.75	24	1 1/4 X 7.75	1 1/4 X 8.25	R69	1.38	21.00	2.38
	600LB	29.25	25.75	20	1 5/8 X 10.75	1 5/8 X 10.75	R69	1.75	21.00	3.25
	900LB	31.00	27.00	20	1 7/8 X 12.75	1 7/8 X 13.25	R70	2.00	21.00	4.00
	1500LB	36.00	30.50	16	2 3/4 X 19.50	2 3/4 X 20.75	R71	2.88	21.00	6.38
20"	150LB	27.50	25.00	20	1 1/8 X 6.25	1 1/8 X 6.75	R72	1.25	23.00	1.69
	300LB	30.50	27.00	24	1 1/4 X 8.00	1 1/4 X 8.75	R73	1.38	23.00	2.50
	600LB	32.00	28.50	24	1 5/8 X 11.25	1 5/8 X 11.50	R73	1.75	23.00	3.50
	900LB	33.75	29.50	20	2.00 X 13.75	2.00 X 14.25	R74	2.12	23.00	4.25
	1500LB	38.75	32.75	16	3.00 X 21.25	3.00 X 22.25	R75	3.12	23.00	7.00
24"	150LB	32.00	29.50	20	1 1/4 X 6.75	1 1/4 X 7.25	R76	1.38	27.25	1.88
	300LB	36.00	32.00	24	1 1/2 X 9.00	1 1/2 X 10.00	R77	1.62	27.25	2.75
	600LB	37.00	33.00	24	1 7/8 X 13.00	1 7/8 X 13.25	R77	2.00	27.25	4.00
	900LB	41.00	35.50	20	2 1/2 X 17.25	2 1/2 X 18.00	R78	2.62	27.25	5.50
	1500LB	46.00	39.00	16	3 1/2 X 24.25	3 1/2 X 25.50	R79	3.62	27.25	8.00



Flanges: Approximate Weights (kgs)

Nominal Pipe Size mm in		150lb			300lb			600lb		
		Weld Neck	Slip on Screwed Socket Weld	Blind	Weld Neck	Slip on Screwed Socket Weld	Blind	Weld Neck	Slip on Screwed Socket Weld	Blind
15	1/2"	0.48	0.39	0.42	0.75	0.64	0.64	0.87	0.74	0.76
20	3/4"	0.71	0.56	0.61	1.26	1.12	1.11	1.45	1.27	1.28
25	1"	1.01	0.78	0.86	1.52	1.36	1.39	1.76	1.52	1.6
32	1 1/4"	1.33	1.03	1.17	2.03	1.68	1.79	2.49	2.03	2.23
40	1 1/2"	1.72	1.32	1.53	2.89	2.49	2.66	3.49	2.96	3.25
50	2"	2.58	2.06	2.42	3.4	2.87	3.18	4.36	3.62	4.15
65	2 1/2"	4.11	3.28	3.94	5.17	4.32	4.85	6.43	5.28	6.13
80	3"	4.92	3.85	4.93	6.93	5.85	6.81	8.53	7.0	8.44
100	4"	6.84	5.3	7.0	11.2	9.61	11.5	17.4	14.5	17.3
125	5"	8.56	6.07	8.63	15.1	12.3	15.6	29.2	24.4	29.4
150	6"	10.6	7.45	11.3	19.1	15.6	20.9	34.9	28.7	36.1
200	8"	17.6	12.1	19.6	29.9	24.2	34.3	53.9	43.4	58.9
250	10"	24	16.5	28.8	42.7	34.1	53.3	86.5	70.3	97.5
300	12"	36.5	26.2	43.2	61.8	49.8	78.8	103	84.2	124
350	14"	48.4	34.6	58.1	85.8	69.9	105	122	98.7	151
400	16"	60.6	44.8	76	106	88.1	137	170	142	214
450	18"	68.3	48.9	93.7	131	109	175	204	173	272
500	20"	84.5	61.9	122	158	134	221	254	220	349
600	24"	115	86.9	185	230	201	339	358	312	533